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Checklist

Voucher-verified checklist of Colombian Pacific marine fishes with emphasis on material deposited in Colombian museums

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Abstract

A checklist of marine fishes from the Colombian Pacific is presented based on an appraisal of local inventories published in peer-reviewed journals and validation of records with voucher specimens deposited in Colombian marine fish collections and photographic records. Unpublished information collected over several years by the authors is also included. An exhaustive re-evaluation of the taxonomy of all species present in the area was also carried out. As a result, 727 species were confirmed, representing close to 50% of the 1,468 shallow water fish species reported from the Eastern Tropical Pacific (ETP). The diversity of marine fishes in Colombia was classified into three classes, 60 orders, 149 families, and 412 genera. Of these classes, only one species belongs to Myxini (hagfishes), 64 to Chondrichthyes (sharks, rays, and chimaeras), and 663 to Actinopterygii (bony fishes). In addition, 35 new records are presented for the Pacific of Colombia. Finally, all this diversity is characterized according to different ecological variables such as depth and bottom preference, among others, with the following results: 43% of all the species are benthopelagic, 54% of which are predominantly soft bottom dwellers. A total of 283 bony fishes (39% of all the species) are considered to have commercial value or are involved in some trade. Additionally, a list of 77 species that have only been recorded in larval stages is also presented. This comprehensive list provides a valuable resource for future research, conservation efforts, and fisheries management in the Colombian Pacific.

Key words: Biodiversity, distribution, Eastern Tropical Pacific, ichthyology

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Introduction

Although there is a long and notable history of ichthyological work in the Eastern Tropical Pacific (ETP) region dating back to the 19th century (Jenyns 1842; Jordan 1895; Jordan and Evermann 1896–1900), the first comprehensive studies included very little material from Colombia. Those studies focused on collections from Panama to Mexico, including the Galapagos Islands (Jordan and Evermann 1896–1900; Gilbert and Starks 1904; Meek and Hildebrand 1923–1928), and Peru (Hildebrand 1946). Subsequent work continued to be restricted to specific

countries or regions such as Peru (Chirichigno 1978; Chirichigno and Vélez 1998; Chirichigno and Cornejo 2001), Ecuador (Béarez 1996), the Galapagos Islands (Grove and Lavenberg 1997; Victor et al. 2024), Mexico as a whole (Castro-Aguirre et al. 1999; Fricke et al. 2024a) or just the Gulf of California (Thomson et al. 1979, 2000; De la Cruz-Agüero et al. 1997), and recently a list of the fishes of the northeastern Pacific from Canada to the tip of Baja California (Love et al. 2021), while Colombian species were mostly only recorded within major regional works (Allen and Robertson 1994; Fischer et al. 1995a, 1995b).

The first records of fish fauna in Colombian Pacific waters were documented by foreign scientists, mainly through material collected by U.S. and British expeditions. A chronological summary of the most notable ones includes the Eastern Pacific Expeditions of the U.S. National Museum of Natural History on the steamer 'Albatross' (Jordan and Bollman 1890; Kendall and Radcliffe 1912), the visit of the British yacht 'St. George' to Gorgona Island in 1927 (Garth 1948), the Allan Hancock Foundation Expeditions (1931–1938) in Pacific waters aboard the 'Velero III' (Myers and Reid 1936; Ginsburg 1938; Herald 1940; Myers and Wade 1941, 1942, 1946; Wade 1946), the American Museum of Natural History expedition in 1941 on the diesel schooner 'Askoy' (Nichols and Murphy 1944), and a joint U.S. Navy – Smithsonian Tropical Research expedition to Malpelo Island in 1972 (Findley 1975; Graham 1975; McCosker and Rosenblatt 1975). More recent foreign surveys include those made by the Japan International Technical Cooperation Agency (JICA, 1981), the exploratory fisheries of the Spanish Cooperation Agency (Balguerías and Rodríguez 1983), and the Norwegian Exploration Agency (NORAD) (Stromme and Sætersdal 1988).

Colombian scientists continued to build knowledge about Colombian Pacific fishes throughout the 1970s and 1980s. Academic institutions published species lists, including those by Sterling (1975, 1976, 1977), Gómez and Díaz (1979), and Rubio (1982, 1984, 1987, 1988), which served as the foundations for the current effort. Significant attention has been given to the fish fauna of Gorgona Island, a national natural park with a variety of habitats, including unique coral reefs (Rubio et al. 1987; Rubio 1990; Franke and Acero 1991, 1992a, 1992b, 1993, 1995, 1996; Acero and Franke 1993, 1995, 2001; Zapata 2001a, 2001b; Rojas and Zapata 2006; Payán et al. 2010; Alzate et al. 2012). The now dismantled Instituto Nacional para la Pesca y Acuicultura also played an important role as a prospector of the region's existing fishery resources (Zapata et al. 1999a, 1999b; Beltrán-León and Ríos-Herrera 2000), contributing to increased regional knowledge. Recent work includes new species descriptions (e.g., Acero and Betancur 2002; Tavera 2021; Tavera et al. 2021; Mejía-Falla et al. 2025), new records (e.g., Beltrán-León and Rubio 1994; Zapata and Morales 1995; Acevedo et al. 1998; Gómez et al. 2001; Puentes et al. 2001; Pedraza et al. 2002; Rubio et al. 2005a, 2005b; Mejía-Falla and Navia 2009; Beltrán-León et al. 2016; Rojas-Vélez and Tavera 2017; Tavera and Rojas-Vélez 2017; Beltrán-León and Ríos 2018), and updated species lists (e.g., Beltrán-León 2007; Mejía-Falla et al. 2007; Puentes et al. 2007; Tobón-López et al. 2008; Navia et al. 2009, 2016; Zapata and Usma 2013; Mejía-Falla and Navia 2019), among others.

For more than three decades, the late Professor Efraín A. Rubio (from Universidad del Valle) worked determinedly to compile a series of annotated species lists of the Colombian Pacific fish fauna. In this daunting endeavor, he included species which occurred in neighboring countries, without vouchers, inferring that they should also be present in Colombia. While his lists have long served as the

basis for a full inventory, it is now necessary to examine the evidence supporting the occurrence of species in Colombian Pacific jurisdictional waters either as specimens in collections or photographic records. This paper aims to produce a depurated species list of Colombian Pacific fishes using the following sources: material deposited in Colombian museums, ROV photographs, published books or papers of new records or additions to Colombian Pacific fish fauna, species that have been described based on material collected in Colombia but whose material is stored in collections outside the country, and lastly two published lists of Colombian material deposited in US collections, personally reviewed by their authors, some of whom are co-authors of this work. All this information will serve as a first step towards completing a verified species inventory. The list presented here, rather than serving as an addition to the existing taxonomic records, seeks to purge unsupported records of all species that have uncertain taxonomic identification, are not backed by vouchered specimens, or from recently published records based on specimens in reference collections. We acknowledge that this list may fall short on numbers and be overly stringent; however, every species included can be considered a validated record, in the hope of contributing to the consolidation of a reliable taxonomic list to which more species can be added.

Colombian Pacific

The Colombian Pacific Ocean covers ca 350,000 km^2 and encompasses the western coast of northern South America from 7.2°N on the Colombia–Panama border to 1.4°N at the border with Ecuador, and includes the Gorgona and Malpelo Islands, as well as a large expanse of open ocean (Fig. 1). The Colombian marine territory in the Pacific represents 16.4% of the national territory and ~40% of the country's maritime area. The Colombian Pacific coast extends more than 1500 km with a predominantly north-south orientation and has a highly varied topography produced by the collision of the Nazca and South American tectonic plates (Suárez-Rodríguez 2007; Restrepo and López 2008; Correa and Morton 2010). The coast can be divided into two different regions based on its geomorphology: the northern extends from the border with Panama south to Cabo Corrientes. This ~375-km strip is demarcated by the Serranía del Baudó coastal mountain range, which runs in a north-south direction, with gentle eastern slopes and steep western slopes which form small beaches and rocky cliffs (Galvis and Mojica 1993), as well as small mangrove patches that develop around river mouths (Castellanos-Galindo et al. 2021). This area also contains the northern coastal reef formations of the Gulf of Cupica and Ensenada de Utría (Zapata and Vargas-Ángel 2003). On the other hand, the southern region has low relief and sedimentary environments, with numerous nearshore islets that extend from south of Cabo Corrientes to the border with Ecuador (Martínez et al. 1995). These low coastal plains are made up of sediments from the late Quaternary, in which mangroves and freshwater sources (San Juan, Patía, and Mira rivers) are prevalent, depositing a great deal of sediment, in the form of coastal fans and sand bars (Galvis and Mojica 1993). This area contains the most structurally complex and thus better-developed mangrove forest in the Colombian Pacific. This regionalization is also supported by the ocean bathymetry adjacent to the coast, the north has a narrow continental shelf (the 200-m isobath is ~15 km from the coast), whereas in the south, it is approximately four times wider. The entire Colombian Pacific lies within the Panama Bight, one of eight ETP

Figure 1. Geographic map of Colombia. The area of the Colombian Pacific Ocean is highlighted in gray.

ecoregions (Spalding et al. 2007), encompassing the area between the Azuero Peninsula (Panama) and the Ancón de Sardinas (Ecuador).

The Colombian Pacific has relatively warm surface waters (25–26 °C), and variable salinities (20–35 ‰) depending on the proximity to the coast (Cantera and Contreras 1993; Herrera-Carmona et al. 2022). It is located in a region of low pressure, known as the equatorial concavity, where the trade winds of each hemisphere converge forming the Intertropical Convergence Zone, characterized by the presence of variable winds in addition to high rainfall (Poveda et al. 2006). The variability of geomorphological, oceanographic, and climatic conditions makes this a highly biologically diverse region.

Methods

The majority of the species included in this list came from published inventories and a reappraisal of specimens deposited in registered Colombian ichthyological collections, each of which is associated with a voucher specimen or a photograph with georeferenced data (Rubio 1982, 1984, 1987, 1988; Allen and Robertson 1994; Béarez 1996; Beltrán-León and Ríos-Herrera 2000; Chirichigno and Cornejo 2001; Rojas and Zapata 2006; Mejía-Falla et al. 2007; Zapata and Usma 2013; Robertson and Allen 2024).

We based our list on confirmed records available from the main recognized Colombian marine ichthyological collections: Universidad del Valle (CIR-UV), Instituto de Investigaciones Marinas y Costeras -INVEMAR- (INV PEC), Parque Nacional Natural Gorgona (PE and MMG), and Instituto de

Ciencias Naturales de la Universidad Nacional de Colombia (ICN-MHN). The exceptions to the deposited records are as follows: 1) photographs for large mobile or rare species, only if the original source was available with georeferenced data. 2) If a species was described based on Colombian specimens, whether it is considered valid or a synonym by the Catalog of Fishes. 3) Species listed in Castellanos-Galindo et al. (2006b, 2006c) since the authors personally reviewed the Colombian material deposited at several international museums. 4) Species-specific published records with photographs included but the specimen was not deposited in a fish collection. 5) ROV photographs from deep sea expeditions. Problematic taxa and those whose images are insufficient to validate identification at the species level were not included. In cases where the identity of the species was questionable or its taxonomy complex, physical examinations of the individuals were carried out. In cases where the batches were too numerous to examine all of them, a few individuals were selected from the batch and identified. We avoided any data aggregators, and other sources that may recycle information, which would prevent this depuration from being feasible. Additionally, we compiled a list of ETP species fish larvae for which the adults have never been found or collected in Colombia and species that have been listed in either north (Panama) or south (Ecuador) but have never been collected or have no traceable records in Colombian territorial waters.

Nomenclature and name validity were based on Eschmeyer's Catalog of Fishes (Fricke et al. 2024b). The checklist is arranged phylogenetically at the ordinal and familial levels following Betancur-R et al. (2017) for ray-finned fishes (Actinopterygii). Genera and species within families are arranged in alphabetical order. For Elasmobranchii, Nelson et al. (2016) are followed and, when indicated, Last et al. (2016a).

In addition to establishing the total taxa, we assigned the species to different ecological categories according to Froese and Pauly (2024) and Robertson and Allen (2024). These categories were based on 1) vertical position in the water column (benthic if completely associated with the bottom; bentho-pelagic if closely associated with the bottom but not permanently in contact with it; and pelagic if mostly associated with the water column with little or no contact with the bottom). 2) pelagic species were subdivided according to the proximity to shore into coastal, coastal-oceanic, and oceanic. 3) benthic and benthopelagic species were divided according to preferred habitat/substrate type: hard bottom, if they inhabit predominantly any type of hard substratum such as reefs, soft bottom, if they inhabit mud, sand, rubble, or similar substrates, and mixed, when there is no apparent preference for either habitat/substrate type. 4) A category related to exploitation was assigned to those species used for commercial and subsistence purposes (commercial and non-commercial). Considering that at the date of finishing this inventory (first semester of 2025), there is a national debate in Colombia about the status of cartilaginous fishes as a source of food and income, we decided to refrain from categorizing any of these species as commercial or non-commercial until the dispute is settled. 5) Depth (shallow, species found within the first 50 m; intermediate, species found at > 50–200 m; and deep, species found at depths > 200 m. 6) Finally the International Union for Conservation of Nature regional threat categories, based on the red list of marine fishes of Colombia (Chasqui et al. 2017).

Results and discussion

In the process of compiling this checklist, several challenges arose when verifying the presence of species. Therefore, far from being complete, this list underwent a rigorous validation process, with each record confirmed by either one author, or, in many cases, by all authors through validation of vouchered specimens. As far as we can tell, the list is complete with respect to all the verifiable available sources in Colombia by this manuscript's submission date.

Overall, 727 marine fish species (Table 1) were reliably verified to be present in the Colombian Pacific (https://doi.org/10.15472/kmsezq); this represents ~50% of the 1468 confirmed marine, shallow water species found in the ETP (Robertson and Allen 2024); however, the latter does not include deep-sea fish, which makes comparison complicated. Our list is significantly shorter than that presented by Rubio (1987), who reported 964 species for the Colombian Pacific but is close to Robertson and Allen's (2024) database, according to which 857 species are found in our region. Our revised list (Table 1) included three classes, of which 48 orders, 122 families, 375 genera, and 663 species correspond to fin-rayed fishes: 11 orders, 27 families, 36 genera, and 64 species to cartilaginous fishes, and one order, one family, one genus, and one species of hagfish. Of the 727 species, 35 (in 20 families) are new records for Colombia, 15 species are Colombian endemics. Two additional tables are also included, first a list of 59 species reported from tropical waters both north and south of the Colombian borders but lack confirmed records within Colombian waters (Table 2), and a list of 77 species that have been recorded only in their larval stages (Table 3). ROV records of the species included can be found in https://ipt.biodiversidad.co/sibm/resource?r=seamountsexpedition_2021 as well as in the final report of the ARGO expedition (Parques Nacionales Naturales de Colombia 2022). The photographs owned by Parques Nacionales Naturales de Colombia may be requested from the authors or directly from Parques Nacionales Naturales de Colombia.

Regarding the taxonomical distribution of the Colombian Pacific fish fauna, the 20 most speciose orders are Perciformes (61 spp), Anguilliformes (55), Carangiformes (50), Gobiiformes (47), Pleuronectiformes (38), Lutjaniformes (34), Blenniiformes (32), Ophidiiformes (26), Clupeiformes (25), Myctophiformes (25), Tetraodontiformes (25), Carcharhiniformes (25), Scombriformes (24), Labriformes (22), Stomiatiformes (22), Beloniformes (21), Myliobatiformes (19), Gadiformes (18), Lophiiformes (18), and Aulopiformes (17), accounting for 80% of the total number of species recorded. As for the 20 most species-rich families, the numbers are as follows: Sciaenidae (47), Serranidae (39), Gobiidae (33), Carangidae (32), Myctophidae (24), Haemulidae (23), Labridae (22), Ophidiidae (22), Muraenidae (21), Ophichthidae (16), Ariidae (14), Carcharhinidae (14), Engraulidae (12), Gobiesocidae (12), Lutjanidae (11), Scorpaenidae (11), Chaenopsidae (10), Cyclopsettidae (10), Cynoglossidae (10), and Scombridae (10). Altogether these families account for 47.8% of the total species recorded. On the other hand, 55 families have only one species in the Pacific Ocean of Colombia, seven of those being monotypic, while 21 are represented by only one species in the ETP. The 20 most speciose genera are *Stellifer* (14), *Anchoa* (10), *Gymnothorax* (10), *Symphurus* (10), *Halichoeres* (9), *Lutjanus* (9), *Carcharhinus* (8), *Cynoscion* (7), *Diplectrum* (7), *Caranx* (6), *Centropomus* (6),

Prionotus (6), *Sphyrna* (6), *Urotrygon* (6), *Cathorops* (5), *Haemulon* (5), *Hyporthodus* (5), *Ophichthus* (5), *Pontinus* (5), *Tomicodon* (5), and *Trinectes* (5). These species together account for 18% of total number of Colombian Pacific species.

The fish families (excluding monotypic ones) that are best represented (as a percentage) in Colombian waters concerning the global and regional (ETP) numbers are as follows. On a global scale, only Coryphaenidae have 100% (2 spp) of their species in the Colombian Pacific. At the regional scale, six families contain 100% of the diversity of ETP species recorded in Colombia. These are Achiridae (8 spp), Sphyrnidae (6 spp), Coryphaenidae (2 spp), and Fistulariidae (2 spp). All these families are lineages in which species diversity can be considered low (>10 spp). After filtering those families with > 10 species and > 20% of the regional richness, 22 families were retained; three have > 80% of the ETP diversity in Colombia and, therefore, can be considered numerous and extremely well represented. Those families are: Carangidae (32 spp: 91.5% of regional diversity), Ophidiidae (22 spp: 87.5% of regional diversity), and Lutjanidae (11 spp: 91.7% of regional diversity). On the other hand, only three families have over 10 species, representing more than 20% of the global diversity of each family (Carangidae 32 spp: 20.4%, Carcharhinidae 14 spp: 23.8%, and Cyclopsettidae 10 spp: 22% of global diversity). Although we recognize that any threshold chosen is arbitrary, we believe that the numbers of these families can be considered high given the inequitable distribution of species in their lineages (i.e., the phylogenetic tree of life is not balanced).

Analyzing this fauna from a depth and substrate preference perspective, of the 727 species, 32.7% were categorized as benthic, 43.1% as bentho-pelagic, and 24.2% as pelagic according to their vertical position in the water column. Among the pelagic species, 41.8% are coastal, 26.1% coastal-oceanic, and 32% oceanic. Regarding the benthic and benthopelagic species, 54.1% predominantly inhabit soft bottoms, 12.4% are found on soft and hard bottoms, and 33.3% dwell on hard substrates. Regarding depth, 25.9% are associated with deep habitats, 27% are found at intermediate depths, and 46.9% inhabit shallow water. A tree map graph representing the numbers of species into discrete ecological categories according to the environment they inhabit (Fig. 2), allows us to visualize that the dominant ichthyic fauna of the Colombian Pacific is benthic and benthopelagic species related to shallow, soft-bottom environments. Although we recognize that this result is strongly influenced by a sampling bias, specifically in deep waters, an area where work has been very incipient if not almost nonexistent in Colombia, we believe that this trend is truthful given that these environments dominate much of the marine area of the Colombian Pacific, especially the southern region.

In terms of the use of this diversity, 282 species of ray-finned fishes (39% of the total) are considered commercially significant. What is worrying about this data is that most of these species lack species-specific landings data and population studies to assess their conservation status. Of the total number of species, 50 have undergone a national conservation status assessment by the IUCN, which reveals that one specie is Critically Endangered, 13 are Near Threatened, 21 are Vulnerable, two are of Least Concern, and 12 fall into the Data Deficient category (Chasqui et al. 2017). This should serve as a warning to decision makers about the importance of these species and how we must strive to obtain good quality data. This in turn will allow us to know how populations are doing under human pressure and how we can make better decisions to protect them.

Table 1. Commented list of Colombian Pacific marine fishes. Acronyms used are as follows: AMNH = American Museum of Natural History New York, USA; ANSP = Academy of Natural Sciences of Philadelphia, Philadelphia, USA; BMNH: British Museum of Natural History, London, England; CAS = California Academy of Science, California, USA; CIRUV = Colección Ictiológica de Referencia Universidad del Valle, Cali, Colombia; ICNMHN = Instituto de Ciencias Naturales Museo de Historia Natural, Bogotá, Colombia; INV PEC = Museo de Historia Natural Marina de Colombia, INVEMAR, Santa Marta, Colombia; IMCN = Colección de Referencia Museo Departamental de Ciencias Naturales-INCIVA, Cali, Colombia; GCRL = Gulf Coast Research Laboratory, Ocean Springs, Mississippi, USA; LACM = Los Angeles County Museum, Los Angeles, USA; MCZ = Museum of Comparative Zoology, Cambridge, USA; PE and MMG = Museo Marino Peces de Gorgona, Colombia; MNHN: Museum national d'histoire naturelle, Paris, France; SIO = Scripps Institution of Oceanography, San Diego, USA; SU = Stanford University, USA (now in CAS); USNM = National Museum of Natural History Smithsonian, Washington D.C., USA; ZMUC = Zoological Museum University of Copenhagen, Copenhagen, Denmark.

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Myxini						
Myxiniformes						
Myxinidae						
Myxine circifrons Garman, 1899	CIRUV 95002					
Chondrichthyes						
Euselachii						
Elasmobranchii						
Selachii						
Heterodontiformes						
Heterodontidae						
Heterodontus cf *francisci* (Girard, 1855)	CIRUV 90005; 78082	This material was identified as *H.* cf *francisci* pending on going molecular and morphological studies. Previous specimens indentified as *H. quoyi* associated with CIRUV are included in this taxon				
Heterodontus mexicanus Taylor & Castro-Aguirre, 1972	CIRUV 23113					
Orectolobiformes						
Ginglymostomatidae						
Ginglymostoma unami Del Moral-Flores, Ramírez-Antonio, Angulo & Pérez-Ponce de León, 2015	Underwater photography at Gorgona Island					Rubio 1986; Rubio et al. 1987a; Acero and Franke 2001
Rhincodontidae						
Rhincodon typus Smith, 1828	PE 88117					
Lamniformes						
Alopiidae						
Alopias pelagicus Nakamura, 1935	CIRUV 006020					
Alopias superciliosus Lowe, 1841	CIRUV 010176; 010177					
Lamnidae						
Odontaspis ferox (Risso, 1810)	Underwater photography at Malpelo Island		x			Bessudo and Lefevre 2017
Carcharhiniformes						
Carcharhinidae						
Carcharhinus albimarginatus (Rüppell, 1837)	MMG 91126;PE 88048;PE 92093; CIRUV 023017					
Carcharhinus altimus (Springer, 1950)	PE 89097, female mandible					Franke and Acero 1991
Carcharhinus cerdale Gilbert, 1898	CIRUV 80080; 81029; 78038; 79020; 75009; 78039; 88162; 81030; 058-002	This species was previously identified as *C. porosus* (Ranzani, 1839) being the late only valid for the Atlantic basin				
Carcharhinus falciformis (Bibron, 1839)	CIRUV 010065; 010092; 010094; Fotos Malpelo					

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Carcharhinus galapagensis (Snodgrass & Heller, 1905)	Underwater photography at Malpelo Island					Gómez and Díaz 1979; Rubio 1986; Rubio et al. 1987a
Carcharhinus leucas (Valenciennes, 1839)	CIRUV 024069					
Carcharhinus limbatus (Valenciennes, 1839)	PE 91109; PE 91099; PE 89037; CIRUV 010183; 023079					
Carcharhinus longimanus (Poey, 1861)	Underwater photography at Gorgona Island					Bessudo and Lefevre 2017
Nasolamia velox (Gilbert, 1898)	PE 87071; PE 90109; PE 90075; CIRUV 010101; 010105; 023114; 023089; 023363					
Negaprion fronto (Jordan & Gilbert, 1882)	PE 88103, female mandible					Franke and Acero 1991
Prionace glauca (Linnaeus, 1758)	ICN-MHN-477					
Rhizoprionodon longurio (Jordan & Gilbert, 1882)	PE 88005; PE 90149; PE 91010; CIRUV 023010; 023081; 023136; 023139; 023145; 023151; 023161; 023373; 023494; 023499					
Triaenodon obesus (Rüppell, 1837)	PE 87078; CIRUV 023020					
Galeocerdonidae						
Galeocerdo cuvier (Péron & Lesueur, 1822)	PE 91008	This species has recently been placed in its own family sister to the remaining carcharhinids. Spelled Galeocerdidae in Herman and Van den Eeckhaut (2010), but also as Galeocerdonidae in Fricke et al. (2024b)				
Pentanchidae						
Apristurus sp.	INV PEC8708	This genus is included in the family Scyliorhinidae in Nelson et al. (2016). *Apristurus brunneus* (Gilbert, 1892) and *A. nasutus* de Buen, 1959, were reported by Rubio (1987) but the vouchered specimens were not found. Bessudo et al. (2021) reported *A. kampae* Taylor, 1972, at Malpelo Island based on an ROV photo; however, species identification in this genus is not trivial. Hence, we decided not to go as far as species on our list				Bessudo et al. 2021
Sphyrnidae						
Sphyrna corona Springer, 1940	CIRUV 81215; 74006					
Sphyrna lewini (Griffith & Smith, 1834)	CIRUV 78165; 81214; 010178; 021155; 023409; 023410					
Sphyrna media Springer, 1940	CIRUV 81255; 021335					
Sphyrna mokarran (Rüppell, 1837)	Underwater photography at Malpelo Island					Rubio 1986; Rubio et al. 1987a; Mejia-Falla and Navia 2019
Sphyrna vespertina Springer, 1940	CIRUV 78166; 78167; 79115; 81216; 90047; 058-001; 017015; 017018; 17026; 17027; 021256; 023541; 023542;	Previously considered a subspecies of the western Atlantic *Sphyrna tiburo* Linnaeus, 1758. The TEP species is genetically and morphologically distinct (Aroca et al. 2022)				
Triakidae						
Mustelus dorsalis Gill, 1864	CIRUV 006018; 017039; 023365; 023394					

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Mustelus henlei (Gill, 1863)	CIRUV 74003; 78179; 75017; 19068; 023038; 023094; 023097; 023540					
Mustelus lunulatus Jordan & Gilbert, 1882	PE 91096; PE 92047; PE 92029; CIRUV 010163; 023086; 023099; 023362; 023364; 023470					
Mustelus whitneyi Chirichigno F., 1973	CIRUV 017048				x	
Hexanchiformes						
Hexanchidae						
Notorynchus cepedianus (Péron, 1807)	PE 88075; PE 90151; CIRUV 010160; 023359; 023369					
Squaliformes						
Etmopteridae						
Etmopterus sp.	Underwater photography at Malpelo Island	Bessudo et al. (2021) identified *Etmopterus* specimens as cf *granulosus* (Günther, 1880), a Southern Hemisphere species, based on an ROV photo at Malpelo Island. We consider species identification of this dwarf shark genus not trivial; the picture in the publication is not conclusive for species-level identification	x			Bessudo et al. 2021
Centroscyllium nigrum Garman, 1899	CIRUV 95001					
Echinorhiniformes						
Echinorhinidae						
Echinorhinus cookei Pietschmann, 1928	Photograph in Navia et al. (2023) and ROV underwater photography at deep mountains at Malpelo-Yuruparí					Navia et al. 2023
Squatiniformes						
Squatinidae						
Squatina californica Ayres, 1859	CIRUV 90012; 010165; 023356; 023360; 023368; PE 90089	Material held at CIRUV was erroneously identified as the Perú-Chile *Squatina armata* (Philippi, 1887). The latter name has been widely and uncritically used for Colombian Pacific angel sharks				
Batomorphi						
Torpediniformes						
Narcinidae						
Narcine entemedor Jordan & Starks, 1895	CIRUV 86024; 007001; 010007; 010095; 010175; 021096; 023395					
Narcine leoparda Carvalho, 2001	CIRUV 88008; 88033; 75050; 05179; 005-233; 88031; 88144; 78177; 81237; 80405; 78178; 79126; 006-001; 85062; 81238; 005-233; 006-001; 010106; 018008					
Torpedinidae						
Tetronarce tremens (de Buen, 1959)	ROV underwater photography at deep mountains at Malpelo-Yuruparí		x			
Rhinopristiformes						
Pristidae						
Pristis pristis (Linnaeus, 1758)	CIRUV 88228					
Rhinobatidae		According to Last et al. (2016b), amphi-American members of *Rhinobatos* were assigned to the genus *Pseudobatos*				Last et al. 2016b
Pseudobatos leucorhynchus (Günther, 1867)	CIRUV 81157; 88220; 88007; 78120; 005-232; 81158; 78050; 88032; 79085; 80289; 005144; 005018; 008118; 005178; 005096					
Pseudobatos prahli (Acero P. & Franke, 1995)	ICN-MHN 4049					Acero and Franke 1995; Payán et al. 2010

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Trygonorrhinidae						
Zapteryx xyster Jordan & Evermann, 1896	CIRUV 85074; 90006; 010063; 010100; 010180; 017073; 021048; 021224; 023325; 023326; 023376; 023400; 023403; 023404					
Rajiformes						
Arhynchobatidae						
Bathyraja sp.	ROV underwater photography INVEMAR-UNIVALLE	Bessudo et al. (2021) identified *Bathyraja*, based on a photo using ROV at Malpelo Island, as *B. spinosissima* (Beebe & Tee-Van, 1941). While we consider this identification possible, this genus is one of the most speciose groups of rays in the world, and identifying any species is not a trivial task. Physical examination of specimens is necessary to identify to species correctly	**x**			
Rajidae						
Amblyraja hyperborea (Collett, 1879)	ROV underwater photography INVEMAR-UNIVALLE		**x**			
Rostroraja equatorialis (Jordan & Bollman, 1890)	CIRUV 017065; 018251					
Rostroraja velezi (Chirichigno F., 1973)	CIRUV 95011; 023357; 023370; 023397; 023398					
Myliobatiformes						
Aetobatidae						
Aetobatus laticeps (Gill, 1865)	CIRUV 010098; 023525	Victor et al. (2024), based on a personal comment by Diana Pazmino, stated that molecular data supports that *Aetobatus ocellatus* (Kuhl, 1823) is the species found in the Galapagos, and extend this finding to Cocos and Malpelo, based on coloration. We have evidence of significant color variation within the *Aetobatus* species. Therefore, until a specific study is published, we prefer to be cautious and leave it as *A. laticeps* pending further detailed examination of the Malpelo specimens				
Dasyatidae						
Hypanus dipterurus (Jordan & Gilbert, 1880)	Underwater photography at Gorgona Island					Zapata et al. 1999b
Hypanus longus (Garman, 1880)	PE 91095; PE 91110; PE 91068					
Hypanus rubioi Mejía-Falla, Navia, Cardeñosa & Tavera, 2025	CIRUV 021336, CIRUV 024008, CIRUV 024073-75				**x**	
Gymnuridae						
Gymnura crebripunctata (Peters, 1869)	CIRUV 006002; 005180; 78079	Material held at CIRUV was erroneously identified as the North American butterfly ray *Gymnura marmorata* (Cooper, 1864). This name has been and is still widely and uncritically used for Colombian Pacific butterfly rays. Ongoing molecular studies on the Colombian specimens are being carried out				

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Mobulidae						
Mobula birostris (Walbaum, 1792)	Underwater photographs at Gorgona and Malpelo Island					Rubio 1986; Rubio et al. 1987a; Acero and Franke 1995, 2001
Mobula munkiana Notarbartolo-di-Sciara, 1987	PE 89004					
Mobula thurstoni (Lloyd, 1908)	CIRUV 023401; 023402; 023324; 023480					
Potamotrygonidae						
Styracura pacifica (Beebe & Tee-Van, 1941)	Photograph in Scheel-Dalmau et al. (2020)					Scheel-Dalmau et al. 2020
Rhinopteridae						
Rhinoptera steindachneri Evermann & Jenkins, 1891	PE 92049; CIRUV 023469; 023399; 023406;					
Urotrygonidae						
Urobatis pardalis Del Moral-Flores, Angulo, López & Bussing, 2015	CIRUV 87022	According to Del Moral-Flores et al. (2015), *Urobatis halleri* (Cooper, 1863), previously confused with *U. pardalis*, extends from Oregón, USA, to southern México				Del Moral-Flores et al. 2015
Urobatis tumbesensis (Chirichigno F. & McEachran, 1979)	CIRUV 006-0063 007-0094					Mejía-Falla and Navia 2009
Urotrygon aspidura (Jordan & Gilbert, 1882)	CIRUV 006-011; 006-012; 00416; 00427; 00414; 00417; 00426; 00480;U113;U20 ;U49;U22;U38;U119;U62;U25;U15; 006-0042; 005-145					
Urotrygon munda Gill, 1863	CIRUV 81241; 88068					
Urotrygon reticulata Miyake & McEachran, 1988	CIRUV 018062					
Urotrygon rogersi (Jordan & Starks, 1895)	CIRUV 252; 008-114; 007-116; 007-0002; 006-0043; 059;U98;U113;U114;U43;U 64;U97;U9;U12;U4;U92;U29;U93;U95;U 54;U108; 006-0040; 007-0055; 78185; 86001; 88143; 78185; 88029; 88009; 005-035; 005-051; 009-120; 006-0041; 005-0197;U111;U123;U92; 78186; 80505; 006-0014; 005052; 008114; 009096; 006-013; 88030; 8503; 0050010; 003-006; 0040015; 004029; 0040094; 0040079; 004003; 006-096; 80504	*Urotrygon caudispinosus* Hildebrand, 1946, is a synonym of *U. munda* Gill, 1863. Material from Colombia wrongly reported as that species, is now reidentified as *U. rogersi* based on material deposited at CIRUV				
Urotrygon simulatrix Miyake & McEachran, 1988	INV PEC 7636; 7694					
Actinopterygii						
Actinopteri						
Neopterygii						
Teleostei						
Elopomorpha						
Elopiformes						
Elopidae						
Elops affinis Regan, 1909	PE 87032; CIRUV 010069; 023031					
Megalopidae						
Megalops atlanticus Valenciennes, 1847	Catch pictures at Bahia Malaga, Valle del Cauca, and sport fishing at Chocó.	Invasive Atlantic species that began crossing to the Eastern Pacific through the Panama Canal ~100 yrs ago. Nowadays it is widely caught from all the Colombian Pacific shores				
Albuliformes						
Albulidae						
Albula esuncula (Garman, 1899)	CIRUV 80001; 80010; 86008; 81060; 80002					
Albula pacifica (Beebe, 1942)	CIRUV 006019					

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Notacanthiformes						
Halosauridae						
Aldrovandia phalacra (Vaillant, 1888)	ROV underwater photography INVEMAR-UNIVALLE		x		x	
Halosaurus radiatus Garman, 1899	INV PEC6842; 6843; 6844; 8710; 8711; 8712; 8713; 8714; 8715				x	
Anguilliformes						
Congridae						
Ariosoma gilberti (Ogilby, 1898)	Holotype MCZ 28425	*Atopichthys acus* Garman, 1899 (Holotype, unique: MCZ 28425), synonym of *Ariosoma gilberti*, collected off Chocó, Colombia				
Bathycongrus macrurus (Gilbert, 1891)	CIRUV 90056; 0010087					
Gnathophis cinctus (Garman, 1899)	CIRUV 002-0023; 023548; 023552					
Heteroconger klausewitzi (Eibl-Eibesfeldt & Köster, 1983)	Underwater photography at Gorgona Island					Palacios et al. 2022
Heteroconger pellegrini Castle, 1999	CIRUV 019057; 021341					Palacios et al. 2022
Japonoconger proriger (Gilbert, 1891)	CIRUV 023554					
Rhynchoconger nitens (Jordan & Bollman, 1890)	ICN-MHN 4530; CIRUV 002-0021; 023553					
Xenomystax atrarius Gilbert, 1891	CIRUV 95007a; 023550					
Heterenchelyidae						
Pythonichthys asodes Rosenblatt & Rubinoff, 1972	CIRUV 80121; 89015; 021195; 023545; 023546; 023547; 023549					
Moringuidae						
Neoconger vermiformis Gilbert, 1890	ICN MHN 4521; CIRUV 024064					
Muraenesocidae						
Cynoponticus coniceps (Jordan & Gilbert, 1882)	CIRUV 90056; 0010087					
Muraenidae						
Anarchias galapagensis (Seale, 1940)	INV PEC 6200					
Echidna nebulosa (Ahl, 1789)	CIRUV 80242; 018081; 023518					
Echidna nocturna (Cope, 1872)	CIRUV 87001; 8243; 004070; 005076; 78092; 78091; 78093b; 78093a					
Enchelycore octaviana (Myers & Wade, 1941)	CIRUV 005150; 005160					
Gymnomuraena zebra (Shaw, 1797)	PE 89047					
Gymnothorax angusticeps (Hildebrand & Barton, 1949)	ROV underwater photography at deep mountains at Malpelo-Yuruparí		x			
Gymnothorax buroensis (Bleeker, 1857)	Underwater photography at Gorgona Island				x	
Gymnothorax castaneus (Jordan & Gilbert, 1883)	CIRUV 78190; 80245					
Gymnothorax dovii (Günther, 1870)	PE 89062; CIRUV 78191; 023066					
Gymnothorax equatorialis (Hildebrand, 1946)	CIRUV 81131; 75034; 001-0010					
Gymnothorax flavimarginatus (Rüppell, 1830)	Underwater photographs at Gorgona and Malpelo Island					Zapata and Morales 1997; Muñoz and Zapata 2013
Gymnothorax panamensis (Steindachner, 1876)	CIRUV 006006; 005151; 005156; 005162; 83001					
Gymnothorax phalarus Bussing, 1998	CIRUV 78190; 78093					
Gymnothorax undulatus (Lacepède, 1803)	CIRUV 90048; 80246; 006-005					
Muraena argus (Steindachner, 1870)	CIRUV 020017; 020021; 023029; 023380; 023381					
Muraena clepsydra Gilbert, 1898	CIRUV 75035; 80247; 005155; 05158; 005146; 86002					
Muraena lentiginosa Jenyns, 1842	CIRUV 78097; 85075; 005147; 005149; 005159					
Scuticaria tigrina (Lesson, 1828)	Underwater photography FZ					

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Uropterygius macrocephalus (Bleeker, 1864)	PE 87043; CIRUV 010031					
Uropterygius versutus Bussing, 1991	CIRUV 008-0076					
Myrocongridae						
Myroconger nigrodentatus Castle & Béarez, 1995	ROV underwater photography at deep mountains at Malpelo-Yuruparí		x		x	
Nemichthyidae						
Nemichthys scolopaceus Richardson, 1848	CIRUV 75036; 95017					
Nettastomatidae						
Hoplunnis pacifica Lane & Stewart, 1968	CIRUV 78089; 91010					
Ophichthidae						
Aplatophis zorro McCosker & Robertson, 2001	CIRUV 079001; 023447					
Apterichtus equatorialis (Myers & Wade, 1941)	CIRUV 80086; 012129; 023559				x	
Echiophis brunneus (Castro-Aguirre & Suárez de los Cobos, 1983)	CIRUV 80253; 081138					
Gordiichthys combibus McCosker & Lavenberg, 2001	Holotype ANSP 130223; Paratypes ANSP 138561; CAS 208467; USNM 356856	Colombian endemic holotype: ANSP 130223. Paratypes: ANSP 138561 (2); CAS 208467; USNM 356856		x		
Myrichthys xysturus (Jordan & Gilbert, 1882)	CIRUV 79071; 81135; 90004; 010049; 011040					
Myrophis vafer Jordan & Gilbert, 1883	ICN-MHN 4523; CIRUV 75011; 021099					
Ophichthus apachus McCosker & Rosenblatt, 1998	Paratype CAS-ICH 97856	Paratype from Utría				
Ophichthus frontalis Garman, 1899	CIRUV 021124; 023383					
Ophichthus remiger (Valenciennes, 1837)	CIRUV 76021; 78100; 79030; 80250; 91038; 92003; 023229					
Ophichthus triserialis (Kaup, 1856)	CIRUV 97002; 006011; 010023; 010024; 011015					
Ophichthus zophochir Jordan & Gilbert, 1882	ICN-MHN 4524; CIRUV 78102; 80251; 80252; 88012; 0030043; 0070030; 010058					
Phaenomonas pinnata Myers & Wade, 1941	Holotype LACM 21560 [ex AHF 13]; Paratypes LACM 21705	Described based on material collected at Utria, Chocó holotype: LACM 21560 [ex AHF 13]. Paratypes: LACM 21705				
Pisodonophis daspilotus Gilbert, 1898	CIRUV 003-0042; 018089					
Quassiremus evionthas (Jordan & Bollman, 1890)	CIRUV 023182				x	
Synaphobranchidae						
Ilyophis sp.	ROV underwater photography INVEMAR-UNIVALLE	ROV images of this deep-sea eel are difficult to identify without physically examining the specimens. However, it is a valid record and adds to our species richness	x			
Otomorpha						
Clupeiformes						
Alosidae						
Sardinops sagax (Jenyns, 1842)	CIRUV 90003; 023131					
Dorosomatidae						
Harengula thrissina (Jordan & Gilbert, 1882)	ICN-MHN 4540; CIRUV 0010003; 80109					
Lile stolifera (Jordan & Gilbert, 1882)	CIRUV 003-0027; 80112; 85022; 80115					
Opisthonema bulleri (Regan, 1904)	CIRUV 81064; 0010002					
Opisthonema libertate (Günther, 1867)	CIRUV 79029; 010133; 016038; 021153; 022003					
Opisthonema medirastre Berry & Barrett, 1963	CIRUV 81071; 88132; 021226; 023303					

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Engraulidae						
Anchoa argentivittata (Regan, 1904)	CIRUV 80142; 79041; 75024; 85019; 80143; 80144; 79040					
Anchoa curta (Jordan & Gilbert, 1882)	CIRUV 80135; 80136					
Anchoa eigenmannia (Meek & Hildebrand, 1923)	CIRUV 005-0191					
Anchoa ischana (Jordan & Gilbert, 1882)	CIRUV 80137; 90022; 0040163; 80138; 81080					
Anchoa lucida (Jordan & Gilbert, 1882)	CIRUV 007-0039; 03-0046; 002-015; 0010030; 79037; 80139; 81082; 80140; 002-013					
Anchoa nasus (Kner & Steindachner, 1867)	CIRUV 80142; 79041; 75024; 85019; 80143; 80144; 79040					
Anchoa panamensis (Steindachner, 1876)	CIRUV 89028; 88199; 80147; 005-065; 003-0030; 80146; 80145; 75025; 009-91; 81084					
Anchoa spinifer (Valenciennes, 1848)	CIRUV 00502; 78060; 94015; 001007; 005003; 0040033; 85018; 88129; 79043; 0040083					
Anchoa starksi (Gilbert & Pierson, 1898)	CIRUV 02-0014					
Anchoa walkeri Baldwin & Chang, 1970	CIRUV 005-066					
Anchovia macrolepidota (Kner, 1863)	ICN-MHN 4536; CIRUV 89040; 80150; 88191; 79038; 88118; 81083; 88206; 86027; 89067; 70004; 80141; 75026					
Cetengraulis mysticetus (Günther, 1867)	ICN-MHN 4537; CIRUV 016008; 88125; 85020; 85021; 016014; 003-0026; 005-030; 009-065; 008-119; 0040082					
Pristigasteridae						
Ilisha fuerthii (Steindachner, 1875)	CIRUV 81063; 81061; 81064; 88130; 79027					
Neoopisthopterus tropicus (Hildebrand, 1946)	ICN-MHN 4538; CIRUV 72005; 81068					
Odontognathus panamensis (Steindachner, 1876)	CIRUV 023239					
Opisthopterus dovii (Günther, 1868)	CIRUV 78051; 80118; 81072; 81073; 86025; 88063; 90021; 001019; 0010057; 0010060; 005-092; 023185; 023242; 023293; 023298					
Opisthopterus effulgens (Regan, 1903)	ICN-MHN 4539; CIRUV 005-079; 016007; 016037			x		
Opisthopterus equatorialis Hildebrand, 1946	CIRUV 72006; 016025; 016024; 005-041; 0070028; 023092; 023232; 023299					
Pliosteostoma lutipinnis (Jordan & Gilbert, 1882)	CIRUV 72006; 016025; 016024; 005-041					
Gonorynchiformes						
Chanidae						
Chanos chanos (Fabricius, 1775)	Underwater photographs at Gorgona and Malpelo Island					Franke and Acero 1992
Siluriformes						
Ariidae						
Ariopsis simonsi (Starks, 1906)	CIRUV 90032; 005-050					
Bagre panamensis (Gill, 1863)	CIRUV 0010018; 78003; 81036; 81000; 81056; 0010075; 80048; 004-0103; 016; 01604; 900310					
Bagre pinnimaculatus (Steindachner, 1876)	CIRUV 76022; 81055; 88071; 88164; 0010031; 78002; 80001; 80010; 79003; 8004; 81001					
Cathorops dasycephalus (Günther, 1864)	USNM 214929; 214930	AAP personally revised those Colombian vouchers at USNM Washington				Rojas and Zapata 2006
Cathorops manglarensis Marceniuk, 2007	CIRUV 016026; 021123					
Cathorops multiradiatus (Günther, 1864)	CIRUV 005153					
Cathorops sp.	CIRUV 021190			x	x	
Cathorops steindachneri (Gilbert & Starks, 1904)	CIRUV 016042; 021248					

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Notarius armbrusteri Betancur-R. & Acero P., 2006	INV PEC 6677; 6678; 6719					
Notarius kessleri (Steindachner, 1876)	INV PEC 6717; 6785					
Notarius sp.	CIRUV 024003			x	x	
Notarius troschelii (Gill, 1863)	CIRUV 016027; 021157					
Occidentarius platypogon (Günther, 1864)	CIRUV 90061					
Sciades dowii (Gill, 1863)	CIRUV 011070; 016028					
Euteleosteomorpha						
Argentiniformes						
Argentinidae						
Argentina aliceae Cohen & Atsaides, 1969	ICN-MHN 4544; CIRUV 78001; 75002					
Stomiiformes						
Gonostomatidae						
Cyclothone microdon (Günther, 1878)	SIO 55-244, 55-246					Castellanos-Galindo et al. 2006c
Cyclothone pallida Brauer, 1902	SIO 55-244;					Castellanos-Galindo et al. 2006c
Phosichthyidae						
Woodsia nonsuchae (Beebe, 1932)	SIO 55-244					Castellanos-Galindo et al. 2006c
Yarrella argenteola (Garman, 1899)	CAS 47830; MCZ 28518; SIO 98-128					Castellanos-Galindo et al. 2006c
Sternoptychidae						
Argyropelecus affinis Garman, 1899	SIO 55-244, 52-384, 55- 246					Castellanos-Galindo et al. 2006c
Stomiidae						
Astronesthes lampara Parin & Borodulina, 1998	SIO 03-173, 72-398					Castellanos-Galindo et al. 2006c
Bathophilus filifer (Garman, 1899)	ICN-MHN 4559					
Bathophilus flemingi Aron & McCrery, 1958	SIO 63-299					Castellanos-Galindo et al. 2006c
Chauliodus barbatus Garman, 1899	MCZ 28490; SIO 55-244, 55-246					Castellanos-Galindo et al. 2006c
Idiacanthus atlanticus Brauer, 1906	SIO 75-452					Castellanos-Galindo et al. 2006c
Stomias colubrinus Garman, 1899	ICN-MHN 4562 - ICN-MHN 4563; CIRUV 94009					
Ateleopodiformes						
Ateleopodidae						
Guentherus altivela Osório, 1917	ROV underwater photography at deep mountains at Malpelo-Yuruparí		x		x	
Aulopiformes						
Aulopidae						
Aulopus chirichignoae Béarez, Zavalaga & Miranda, 2024	ICN-MHN 4564; CIRUV 017072	Previously identified as *A. bajacali* (Parin & Kotlyar, 1984)				Béarez et al. 2024
Chlorophthalmidae						
Chlorophthalmus mento Garman, 1899	ICN-MHN 4566; CIRUV 78057; 021227					
Ipnopidae						
Bathypterois atricolor Alcock, 1896	MCZ 28505, USNM 00057888					Castellanos-Galindo et al. 2006c
Ipnops agassizii Garman, 1899	SIO 75-452					Castellanos-Galindo et al. 2006c

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Notosudidae						
Scopelosaurus hubbsi Bertelsen, Krefft & Marshall, 1976	SIO 68-603, 68-616					Castellanos-Galindo et al. 2006c
Paralepididae						
Lestidium bigelowi Graae, 1967	SIO 96-132, 96-104					Castellanos-Galindo et al. 2006c
Synodontidae						
Synodus evermanni Jordan & Bollman, 1890	ICN-MHN 4570 - ICN-MHN 4571; CIRUV 950012; 0010042; 006008; 017060; 021245					
Synodus lacertinus Gilbert, 1890	CIRUV 79120; 80383; 021267; 023176; 023292					
Synodus scituliceps Jordan & Gilbert, 1882	ICN-MHN 4573 - ICN-MHN 4574 - ICN-MHN 4575; CIRUV 80386; 0010043; 0010015; 0010065; 75045; 81226; 81227; 88127; 005116; 81230; 80385; 79121; 81225; 80384; 81228; 81229					
Synodus sechurae Hildebrand, 1946	CIRUV 85038					
Myctophiformes						
Myctophidae						
Diaphus fulgens (Brauer, 1904)	SIO 55-244					Castellanos-Galindo et al. 2006c
Gonichthys cocco (Cocco, 1829)	LACM 3511, 3515, 50195.001					Castellanos-Galindo et al. 2006c
Hygophum atratum (Garman, 1899)	SIO 77-232, 91-189					Castellanos-Galindo et al. 2006c
Lampanyctus crypticus (Zahuranec, 2000)	SIO 75-452					Castellanos-Galindo et al. 2006c
Lampanyctus idostigma Parr, 1931	SIO 55-244, 52-384, 55- 246					Castellanos-Galindo et al. 2006c
Lampanyctus omostigma Gilbert, 1908	SIO 55-242, 55-244, 52- 384					Castellanos-Galindo et al. 2006c
Notolychnus valdiviae (Brauer, 1904)	SIO 03-174 55-242, 52- 384					Castellanos-Galindo et al. 2006c
Parvilux boschmai Hubbs & Wisner, 1964	SIO 52-384					Castellanos-Galindo et al. 2006c
Symbolophorus reversus Gago & Ricord, 2005	SIO 55-242					Castellanos-Galindo et al. 2006c
Triphoturus mexicanus (Gilbert, 1890)	ICNMHN 4602, 4603; MCZ 35162; SIO 55-244, 52-384, 55- 246, 55-244;					Castellanos-Galindo et al. 2006c
Triphoturus nigrescens (Brauer, 1904)	SIO 55-242, 55-246					Castellanos-Galindo et al. 2006c
Neoscopelidae						
Scopelengys tristis Alcock, 1890	SIO 55-244, 55-246 CAS 146482					Castellanos-Galindo et al. 2006c
Lampriformes						
Trachipteridae						
Zu cristatus (Bonelli, 1820)	ICN-MHN 4607; Photo Chocó					
Zeiogadaria						
Gadiformes						
Bregmacerotidae						
Bregmaceros bathymaster Jordan & Bollman, 1890	ICN-MHN 4623 - ICN-MHN 4624 - ICN-MHN 4625; CIRUV					

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Macrouridae						
Asthenomacrurus fragilis (Garman, 1899)	MCZ 28585					Castellanos-Galindo et al. 2006b
Coelorinchus canus (Garman, 1899)	CIRUV 021200					
Coryphaenoides anguliceps (Garman, 1899)	MCZ 28565					Castellanos-Galindo et al. 2006b
Coryphaenoides boops (Garman, 1899)	MCZ 28588					Castellanos-Galindo et al. 2006b
Coryphaenoides capito (Garman, 1899)	MCZ 28591, 28589, 28587					Castellanos-Galindo et al. 2006b
Coryphaenoides carminifer (Garman, 1899)	MCZ 28582; USNM 57860					Castellanos-Galindo et al. 2006b
Nezumia convergens (Garman, 1899)	MCZ 28574					Castellanos-Galindo et al. 2006b
Nezumia orbitalis (Garman, 1899)	MCZ 28578					Castellanos-Galindo et al. 2006b
Nezumia stelgidolepis (Gilbert, 1890)	MCZ 28580					Castellanos-Galindo et al. 2006b
Merlucciidae						
Merluccius productus (Ayres, 1855)	ICN-MHN 4626; CIRUV 021203	Based on morphological and molecular approaches, Silva-Segundo et al. (2011) consider *Merluccius angustimanus* Garman, 1899, a synonym of *M. productus*				
Moridae						
Antimora rostrata (Günther, 1878)	ROV underwater photography at deep mountains at Malpelo-Yuruparí; MCZ 28610, 28611		x		x	Castellanos-Galindo et al. 2006b
Laemonema gracillipes Garman, 1899	ROV underwater photography at deep mountains at Malpelo-Yuruparí; SU 25629, USNM 00135362		x			Castellanos-Galindo et al. 2006b
Physiculus nematopus Gilbert, 1890	ICN-MHN 3319					Castellanos-Galindo et al. 2006b
Physiculus rastrelliger Gilbert, 1890	CIRUV 80222, 80223					
Physiculus talarae Hildebrand & Barton, 1949	ROV underwater photography at deep mountains at Malpelo-Yuruparí; GCRL 13898		x		x	Castellanos-Galindo et al. 2006b
Trachichthyiformes						
Trachichthyidae						
Hoplostethus mento (Garman, 1899)	INV PEC8840, INV PEC8841					
Holocentriformes						
Holocentridae						
Myripristis berndti Jordan & Evermann, 1903	CIRUV 021326; 021327					
Myripristis leiognathus Valenciennes, 1846	CIRUV 79056; 80196; 80197; 91034					
Neoniphon suborbitalis (Gill, 1863)	ICN-MHN 4650; CIRUV 010036; 010037; 010038; 011055; 018076					
Ophidiiformes						
Bythitidae						
Grammonus diagrammus (Heller & Snodgrass, 1903)	CIRUV 018225		x		x	
Ogilbia sedorae Møller, Schwarzhans & Nielsen, 2005	USNM 263738					Castellanos-Galindo et al. 2006b
Petrotyx hopkinsi Heller & Snodgrass, 1903	ANSP 98557; SIO 70-135					Castellanos-Galindo et al. 2006b

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Ophidiidae						
Acanthonus armatus Günther, 1878	MCZ 28629					Castellanos-Galindo et al. 2006b
Bassozetus nasus Garman, 1899	MCZ 28646, 157079					Castellanos-Galindo et al. 2006b
Bathyonus caudalis (Garman, 1899)	MCZ 28676, 28678					Castellanos-Galindo et al. 2006b
Brotula clarkae Hubbs, 1944	ICN-MHN 4609 - ICN-MHN 4610; CIRUV 0010064; 0010023; 81012; 80058					
Brotula ordwayi Hildebrand & Barton, 1949	PE 92008;PE 88078; CIRUV 023070					
Carapus dubius (Putnam, 1874)	CIRUV 80090; 81028					
Carapus mourlani (Petit, 1934)	CIRUV 023537				x	
Cherublemma emmelas (Gilbert, 1890)	CIRUV 021221					
Dicrolene nigra Garman, 1899	MCZ 28665					Castellanos-Galindo et al. 2006b
Encheliophis vermicularis Müller, 1842	USNM 00101790					Castellanos-Galindo et al. 2006b
Enchelybrotula gomoni Cohen, 1982	Holotype USNM 221141. Paratypes UF 222859 [ex UMML 22859], USNM 221142, ZMUC P77700	Holotype and paratypes trawled off Chocó, Colombia				
Holcomycteronus digittatus Garman, 1899	MCZ 28642, 28640					Castellanos-Galindo et al. 2006b
Lamprogrammus niger Alcock, 1891	MCZ 28626- 27; SIO 72-328,					Castellanos-Galindo et al. 2006b
Lepophidium hubbsi Robins & Lea, 1978	CIRUV 80256	Material of this cusk-eel stored at CIRUV has been erroneously reported as *L. microlepis* (Gilbert, 1890), a Baja California species. *Lepophidium hubbsi* is known from Costa Rica to Colombia.				
Lepophidium negropinna Hildebrand & Barton, 1949	ICN-MHN 4611 - ICN-MHN 4612 - ICN-MHN 4613; CIRUV 78103; 010006; 021046; 021202					
Lepophidium pardale (Gilbert, 1890)	IMCN 3340					Castellanos-Galindo et al. 2006b
Lepophidium prorates (Jordan & Bollman, 1890)	ICN-MHN 4614; CIRUV 80259; 0010022; 017051; 019019; 021058					
Neobythites stelliferoides Gilbert, 1890	IMCN 3342					Castellanos-Galindo et al. 2006b
Ophidion fulvum (Hildebrand & Barton, 1949)	ICN-MHN 4616; CIRUV 79075; 79074; 80262; 80263					
Porogadus longiceps Garman, 1899	MCZ 28660					Castellanos-Galindo et al. 2006b
Batrachoidaria						
Batrachoidiformes						
Batrachoididae						
Batrachoides boulengeri Gilbert & Starks, 1904	CIRUV 3074					
Batrachoides pacifici (Günther, 1861)	CIRUV 85073; 88174; 88176; 78008; 80029; 81009; 86029					
Daector dowi (Jordan & Gilbert, 1887)	CIRUV 0040100; 0010051; 75003; 001017; 81038; 85003; 85043; 85066; 88051; 88150; 005-112; 88155; 79007; 80032; 70002; 78009; 78010; 79007; 80030; 80031					
Daector gerringi (Rendahl, 1941)	CIRUV 89016; 88175			x		

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Porichthys margaritatus (Richardson, 1844)	ICN-MHN 4627; CIRUV 74001; 78011; 78012; 79008; 80033; 81014; 81059; 85094; 85072; 88156; 88052; 88151; 88153; 010026; 021070; 021199					
Porichthys oculellus Walker & Rosenblatt, 1988	CIRUV 008-0087					
Pelagiaria						
Scombriformes						
Bramidae						
Taractes rubescens (Jordan & Evermann, 1887)	INV PEC 8691					
Centrolophidae						
Schedophilus haedrichi Chirichigno F., 1973	CIRUV 76004; 87006					
Gempylidae						
Ruvettus pretiosus Cocco, 1833	Landing picture at Chocó					
Scombridae						
Acanthocybium solandri (Cuvier, 1832)	Underwater photography at Malpelo Island					Franke and Acero 1992; Acero and Franke 2001
Auxis brachydorax Collette & Aadland, 1996	ICN-MHN 4781 - ICN-MHN 4781 – ICN-MHN 4782; CIRUV 90038					
Euthynnus lineatus Kishinouye, 1920	ICN-MHN 4783; CIRUV 89058					
Katsuwonus pelamis (Linnaeus, 1758)	PE 90122					
Sarda orientalis (Temminck & Schlegel, 1844)	PE 88095; 89040					Franke and Acero 1992
Scomber japonicus Houttuyn, 1782	INV PEC 124; 634; 881; 884; 6056; 7423.					Franke and Acero 1992
Scomberomorus sierra Jordan & Starks, 1895	ICN-MHN 4784 - ICN-MHN 4785; CIRUV 010039; 021086; 021100; 021135; 021233; 021339; 023234					
Thunnus albacares (Bonnaterre, 1788)	PE 87081; ICN-MHN 4786					
Thunnus obesus (Lowe, 1839)	Landing photographs					
Stromateidae						
Peprilus medius (Peters, 1869)	CIRUV 78168; 80373; 80374; 81217; 85029; 91008; 021059; 021198					
Peprilus snyderi Gilbert & Starks, 1904	CIRUV 71009; 0010058; 021243; 021257					
Trichiuridae						
Trichiurus nitens Garman, 1899	ICN-MHN 4880 - ICN-MHN 4777 - ICNMHN 4778; CIRUV 7300**;** 80406; 81235; 88124; 85026; 001008; 010059; 021055; 021101; 021254					
Syngnatharia						
Syngnathiformes						
Aulostomidae						
Aulostomus chinensis (Linnaeus, 1766)	Underwater photographs at Gorgona and Malpelo Island					Rubio et al. 1987a; Zapata and Morales 1997; Muñoz and Zapata 2013
Callionymidae						
Synchiropus atrilabiatus (Garman, 1899)	CIRUV 95020; 017036					
Synchiropus garthi (Seale, 1940)	CAS 5746	Holotype collected at Utria, Colombia. Since the holotype is unique and no more specimens have been collected for ~ 100 yrs, we believe this may end up being a synonym of *S. atrilabiatus* but a formal taxonomic study examining the specimen must be performed to reach this conclusion				

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Fistulariidae						
Fistularia commersonii Rüppell, 1838	ICN-MHN 4656; CIRUV 80160; 80161					
Fistularia corneta Gilbert & Starks, 1904	ICN-MHN 4657; CIRUV 81091					
Mullidae						
Mulloidichthys dentatus (Gill, 1862)	ICN-MHN 4731; CIRUV 0010085; 80236; 79069; 80235					
Pseudupeneus grandisquamis (Gill, 1863)	CIRUV 71007; 79070; 73001; 80237; 80239; 81123; 81124; 8112; 81126; 81127; 85030; 85050; 011043; 016010; 021082; 021083; 023191					
Syngnathidae						
Cosmocampus coccineus (Herald, 1940)	ICN-MHN 4650; CIRUV 007-0097					
Doryrhamphus melanopleura (Bleeker, 1858)	ICN-MHN 4652 - ICN-MHN 4653; CIRUV Foto Malpelo					
Hippocampus ingens Girard, 1858	ICN-MHN 4654; CIRUV 78169; 80375; 80376; 80377; 81220; 81221; 89001; 86028					
Pseudophallus elcapitanensis (Meek & Hildebrand, 1914)		Larvae of this freshwater pipefish were reported from material collected off the Colombian Pacific				Beltrán-León et al. 2003
Pseudophallus starksii (Jordan & Culver, 1895)		Larvae of this freshwater pipefish were reported from material collected off the Colombian Pacific				Beltrán-León et al. 2003
Syngnathus auliscus (Swain, 1882)	ICN-MHN 4655; CIRUV 80379					
Gobiaria						
Kurtiformes						
Apogonidae						
Apogon atradorsatus Heller & Snodgrass, 1903	Underwater photography at Malpelo Island		x			Muñoz and Zapata 2013
Apogon dovii Günther, 1862	ICN-MHN 4674 - ICN-MHN 4675; CIRUV 80008; 80007; 79002					
Apogon pacificus (Herre, 1935)	CIRUV 021343					
Gobiiformes						
Eleotridae						
Dormitator latifrons (Richardson, 1844)	ICN-MHN 4752; CIRUV 80506; 79118; 88204.1					
Eleotris picta Kner, 1863	CIRUV 80042; 80049; 80056; 81035; 83002; 87002; 88002; 89002; 87017; 90049; 95019; 90035; 91007; 91032; 95050; 86002; 90056; 87017; 91058; 90061; 95021; 88004; 94030; 84002; 94031; 94023; 88004; 83020; 96020; 91069; 93073; 91038; 80380; 79119; 80205; 91032; 94001; 81222; 81223					
Erotelis armiger (Jordan & Richardson, 1895)	ICN-MHN 4753; CIRUV 80381; 80382					
Gobiomorus maculatus (Günther, 1859)	CIRUV 010135; 010170; 018196; 021133; 012154; 023196; 023213; 023333; 023424					
Gobiomorus polylepis Ginsburg, 1953	CIRUV 018197				x	
Guavina micropus Ginsburg, 1953	CIRUV 018231; 023260				x	
Gobiidae						
Aboma etheostoma Jordan & Starks, 1895	CIRUV 005-060					
Bathygobius andrei (Sauvage, 1880)	CIRUV 80174; 85096; 87017; 88167; 88203; 89038; 90058					
Bathygobius lineatus (Jenyns, 1841)	CIRUV 015561; 018226					
Bathygobius ramosus Ginsburg, 1947	CIRUV 80178; 88187; 80179; 78072; 80175; 80176; 80177; 81102					
Bollmannia chlamydes Jordan, 1890	CIRUV 81246					
Bollmannia sp. A	CIRUV 021057; 021228	Undescribed species with a known distribution from Panama to Ecuador (Robertson and Allen 2015). Caught in Colombia by deep shrimp trawlers.				

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Bollmannia stigmatura Gilbert, 1892	CIRUV 017045					
Cerdale ionthas Jordan & Gilbert, 1882	CIRUV 006-0031					
Cerdale paludicola Dawson, 1974	ICN-MHN 4760; CIRUV 003-0070					
Chriolepis cuneata Bussing, 1990	CIRUV 007-0095					
Chriolepis lepidota Findley, 1975	CIRUV 018159; 019001; 019004		x	x		
Clarkichthys bilineatus (Clark, 1936)	ICN-MHN 4761 - ICN-MHN 4762; CIRUV 006-003					
Coryphopterus urospilus Ginsburg, 1938	PE 89044; PE 91132; CIRUV 023144; 023142; 023336					
Elacatinus rubrifrons (Fowler, 1944)	CIRUV 023339; 023348; 023352					
Evermannia zosterura (Jordan & Gilbert, 1882)	CIRUV 024065					
Gobiosoma nudum (Meek & Hildebrand, 1928)	CIRUV 022015					
Gobulus crescentalis (Gilbert, 1892)	CIRUV 007-0096					
Gobulus hancocki Ginsburg, 1938	CIRUV 81105; 80185					
Lophogobius cristulatus Ginsburg, 1939	CIRUV 018217				x	
Lythrypnus cobalus Bussing, 1990	CIRUV 018184; 018185; 018186; 018188	Previous records from *L. dalli* (Gilbert, 1890) from Malpelo Island are indeed *L. cobalus*. Molecular and morphological characters support this result.	x		x	Rojas-Velez 2021
Lythrypnus solanensis Acero P., 1981	Holotype LACM 38222-1	A species described based on Colombian material from Chocó		x		
Microdesmus dipus Günther, 1864	CIRUV 003-001					
Microdesmus knappi Dawson, 1972	Holotype USNM 206506. Paratypes ANSP 117497	Holotype and paratypes collected at Punta Guida, Buenaventura, Valle del Cauca		x		
Microdesmus retropinnis Jordan & Gilbert, 1882	CIRUV 009-0024					
Microgobius emblematicus (Jordan & Gilbert, 1882)	CIRUV 71005; 88112; 009-0037					
Microgobius tabogensis Meek & Hildebrand, 1928	CIRUV 78074; 80186					
Ptereleotris carinata Bussing, 2001	PE 2188; Underwater photographs at Gorgona Island					
Tigrigobius inornatus (Bussing, 1990)	CIRUV 023344					
Tigrigobius janssi (Bussing, 1981)	CIRUV 023354				x	
Tigrigobius nesiotes (Bussing, 1990)	Underwater photography at Gorgona Island					
Oxudercidae						
Awaous transandeanus (Günther, 1861)	CIRUV 86001					
Ctenogobius sagittula (Günther, 1862)	CIRUV 018031					
Evorthodus minutus Meek & Hildebrand, 1928	CIRUV 009-0036					
Gobionellus daguae (Eigenmann, 1918)	Holotype FMNH 58479 [ex CM 7481]. Paratypes CAS 46150 [ex IU 13863], FMNH 58480 [ex CM 7482]	Holotype and paratypes collected at the mouth of Rio Dagua, Valle del Cauca				
Gobionellus liolepis (Meek & Hildebrand, 1928)	CIRUV 80180; 80181; 80182; 85041; 88221					
Sicydium hildebrandi Eigenmann, 1918	CIRUV 003-082; 008-0067; 008-0103; 020028; 021120; 021121; 021122; 021192; 021193; 023158					
Sicydium salvini Ogilvie-Grant,1884	CIRUV 018194					
Carangaria						
Istiophoriformes						
Istiophoridae						
Istiophorus platypterus (Shaw, 1792)	Listed in published local inventories with no voucher specimen or photograph					Rubio 1988; Franke and Acero 1996; Acero and Franke 2001

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Makaira nigricans Lacepède, 1802	Listed in published local inventories with no voucher specimen or photograph					Acero and Franke 2001
Xiphiidae						
Xiphias gladius Linnaeus, 1758	Listed in published local inventories with no voucher specimen or photograph	Record based on Castellanos-Galindo et al. (2006a) who reported the swordfish from Bahía Málaga				Castellanos-Galindo et al. 2006a
Carangiformes						
Carangidae						
Alectis ciliaris (Bloch, 1787)	ICN-MHN 4684 - ICN-MHN 4685; CIRUV 91021; 80062; 78023; 0010072; 78022					
Caranx caballus Günther, 1868	CIRUV 016045; 80059; 78018; 80060; 91018					
Caranx caninus Günther, 1867	CIRUV 75005; 80083; 80084; 80085; 81019; 81043; 85016; 79015; 80067; 80068; 78029; 80070; 017008					
Caranx lugubris Poey, 1860	Underwater Photographs at Malpelo Island and Chocó					
Caranx melampygus Cuvier, 1833	PE 88041; CIRUV 023166; 023475					
Caranx sexfasciatus Quoy & Gaimard, 1825	ICN-MHN 4686; CIRUV 018068; 023054; 023407					
Caranx vinctus Jordan & Gilbert, 1882	CIRUV 021296	This species is no longer a *Carangoides* (Kimura et al. 2022)				
Chloroscombrus orqueta Jordan & Gilbert, 1883	ICN-MHN 4687 - ICN-MHN 4688; CIRUV 88125; 83005; 900054; 91016; 0010011; 85009; 81045; 81058; 85071; 88122; 88050; 016047; 79018; 80076; 80077; 80078; 80079					
Decapterus macarellus (Cuvier, 1833)	CIRUV 023101					
Decapterus macrosoma Bleeker, 1851	CIRUV 90002; 89063; 75014					
Elagatis bipinnulata (Quoy & Gaimard, 1825)	PE 88082; CIRUV 023024; 023339; 023352					
Euprepocaranx dorsalis (Gill, 1863)	CIRUV 78034; 81044; 89046; 021261; 022088; 023420	Previously as *Carangoides dorsalis*; Kimura et al. (2022) assigned this species to this new genus				
Gnathanodon speciosus (Forsskål, 1775)	Underwater photography at Gorgona Island					Franke and Acero 1993; Muñoz and Zapata 2013
Hemicaranx leucurus (Günther, 1864)	CIRUV 78027; 74002					
Hemicaranx zelotes Gilbert, 1898	CIRUV 81020; 81046; 88067; 71002; 80071					
Naucrates ductor (Linnaeus, 1758)	ICN-MHN 4690; CIRUV 78024					
Oligoplites altus (Günther, 1868)	CIRUV 91003; 75007; 79017; 78032; 78033; 80074; 80075; 81023; 81024; 81025; 88194; 91020					
Oligoplites inornatus Gill, 1863	ICN-MHN 4691 - ICN-MHN 4692; CIRUV 75004; 85025					
Oligoplites refulgens Gilbert & Starks, 1904	CIRUV 81018; 81016; 0010046; 85006; 81017; 85053; 88063; 010066; 010147; 011051; 016050					
Paraselene orstedii (Lütken, 1880)	CIRUV 010195; 011018; 016049; 018007; 024090	Previously as *Selene orstedii*; Kimura et al. (2022) assigned this species to this new genus				
Selar crumenophthalmus (Bloch, 1793)	ICN-MHN 4693 - ICN-MHN 4694; CIRUV 71001; 78020; 78021; 79117; 80061; 88061; 91064; 010115; 021264; 023046; 023053; 023238					
Selene brevoortii (Gill, 1863)	CIRUV 76012; 78028; 80065; 80041; 80088; 81015; 86017; 0010014; 0010038; 016049; 010191; 010171; 023244; 023473; 023115					

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Selene peruviana (Guichenot, 1866)	ICN-MHN 4695 ICN-MHN 4696 - ICN-MHN 4697; CIRUV 88058; 88060; 75016; 0010040; 0010036; 79013; 80063; 81033; 81048; 81049; 85009; 88139; 005-124; 016048; 004-0169; 80063; 0010024					
Seriola lalandi Valenciennes, 1833	ICN-MHN 4698 - ICN-MHN 4699; Photography from Malpelo					
Seriola peruana Steindachner, 1881	ICN-MHN 4700; Photography from Malpelo					
Seriola rivoliana Valenciennes, 1833	CIRUV 78030; 023483					
Trachinotus kennedyi Steindachner, 1876	CIRUV 75001.1; 80064; 81050; 81013; 88138; 88004; 017001; 021291; 023477					
Trachinotus paitensis Cuvier, 1832	ICN-MHN 4701; CIRUV 81022; 89066; 023228					
Trachinotus rhodopus Gill, 1863	CIRUV 79014; 80069; 010130; 010067; 011016; 017074; 021292; 023045; 023112; 023128; 023408					
Trachinotus stilbe (Jordan & McGregor, 1898)	CIRUV 017074; underwater photography at Malpelo Island		x			
Uraspis helvola (Forster, 1801)	Underwater photographs at Malpelo Island and Chocó					
Centropomidae						
Centropomus armatus Gill, 1863	CIRUV 80091; 88185; 94004					
Centropomus medius Günther, 1864	CIRUV 021093; 023190; 023211					
Centropomus nigrescens Günther, 1864	CIRUV 80092; 80093; 81052; 81053; 81054; 89026; 90045					
Centropomus robalito Jordan & Gilbert, 1882	CIRUV 017005; 78014; 86010; 90053					
Centropomus unionensis Bocourt, 1868	CIRUV 016004					
Coryphaenidae						
Coryphaena equiselis Linnaeus, 1758	ICN-MHN 4682					
Coryphaena hippurus Linnaeus, 1758	ICN-MHN 4680 - ICN-MHN 4681 - ICN-MHN 4683; CIRUV 023422					
Echeneidae						
Phtheirichthys lineatus (Menzies, 1791)	PE 87067					
Remora albescens (Temminck & Schlegel, 1850)	PE 88083; CIRUV 023064					
Remora osteochir (Cuvier, 1829)	CIRUV 011066					
Remora remora (Linnaeus, 1758)	CIRUV 69001; 79036; 92001; 006021; 023078; 023390					
Nematistiidae						
Nematistius pectoralis Gill, 1862	CIRUV 005-008; 010168					
Polynemidae						
Polydactylus approximans (Lay & Bennett, 1839)	ICN-MHN 4720 - ICN-MHN 4721; CIRUV 0010012; 0010035; 005-133; 75037; 79076; 80265; 88187; 005-109; 70006; 71008; 80266; 80267; 80268; 80269; 81144; 85024; 85069; 016034					
Polydactylus opercularis (Gill, 1863)	ICN-MHN 4722 ICN-MHN 4723 - ICN-MHN 4724; CIRUV 75038; 80270					
Sphyraenidae						
Sphyraena ensis Jordan & Gilbert, 1882	ICN-MHN 4769 - ICN-MHN 4770; CIRUV 0010033; 016019; 005-125; 89023; 78164; 74005; 85064; 81213; 0010013					
Sphyraena idiastes Heller & Snodgrass, 1903	PE 88126; PE 92068					
Sphyraena qenie Klunzinger, 1870	CIRUV 023430					
Pleuronectiformes						
Achiridae						
Achirus klunzingeri (Steindachner, 1880)	ICN-MHN 4799; CIRUV 007-0067; 80361; 80362; 88006; 88145					
Achirus mazatlanus (Steindachner, 1869)	ICN-MHN 4800; CIRUV 78159; 80365; 80366; 81120; 86015					
Achirus scutum (Günther, 1862)	CIRUV 85054					

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Trinectes fimbriatus (Günther, 1862)	CIRUV 80359; 80369; 007-0061; 011030; 018053; 018053					
Trinectes fluviatilis (Meek & Hildebrand, 1928)	CIRUV 80360; 81207; 81208; 88053; 010123					
Trinectes fonsecensis (Günther, 1862)	CIRUV 80369; 80370; 88173; 011029; 016015; 021146					
Trinectes opercularis (Nichols & Murphy, 1944)	CIRUV 004-0003; 010086; 010122; 018012; 018059					
Trinectes xanthurus Walker & Bollinger, 2001	CIRUV 010090; 011033; 018013; 018038; 022009; 023538					
Bothidae						
Bothus leopardinus (Günther, 1862)	CIRUV 011058					
Bothus mancus (Broussonet, 1782)	Underwater photography at Malpelo Island					
Monolene maculipinna Garman, 1899	CIRUV 78045; 021262					
Cyclopsettidae		Campbell et al. (2019) included these four genera in their new family Cyclopsettidae, which had already been informally recognized by Betancur et al. (2017)				
Citharichthys gilberti Jenkins & Evermann, 1889	ICN-MHN 4793 - ICN-MHN 4794; CIRUV 017011; 94027; 80050; 80054; 88188; 89027; 80051; 80052; 80053; 80055; 78017					
Citharichthys gnathus Hoshino & Amaoka, 1999	UCR 1903.002	van der Heiden et al. (2009), in their review of the genus, re-identified two specimens off Guascama, Tumaco, Nariño, as *C. gnathus* previously named "*C. fragilis*"				van der Heiden et al. 2009
Citharichthys platophrys Gilbert, 1891	ICN-MHN 4795 - ICN-MHN 4795 - ICNMHN 4796; CIRUV 78041; 79021; 80042; 80043; 80081; 80098					
Cyclopsetta panamensis (Steindachner, 1876)	CIRUV 005-071					
Cyclopsetta querna (Jordan & Bollman, 1890)	CIRUV 80047; 80046; 88037; 80044; 80045; 88049; 005-127; 72002; 78015; 78016; 79011; 80048; 80049; 0010025					
Etropus crossotus Jordan & Gilbert, 1882	ICN-MHN 4797; CIRUV 79022; 80082; 88045; 011183; 018056					
Etropus peruvianus Hildebrand, 1946	CIRUV 88046					
Syacium latifrons (Jordan & Gilbert, 1882)	CIRUV 81031; 017056					
Syacium longidorsale Murakami & Amaoka, 1992	Paratype USNM 317827	Paratype collected off Cauca department				
Cynoglossidae						
Symphurus callopterus Munroe & Mahadeva, 1989	CAS 24960	Additional non-type specimens in the description				Zapata et al. 1999b; Rojas and Zapata 2006
Symphurus chabanaudi Mahadeva & Munroe, 1990	CIRUV 010047					
Symphurus elongatus (Günther, 1868)	CIRUV 025072					
Symphurus fasciolaris Gilbert, 1892	CIRUV 80128; 81075					
Symphurus gorgonae Chabanaud, 1948	ICN-MHN 4803; Gorgona Island, (Pacific) Colombia, depth 30 fathoms. Holotype BMNH 1926.7.12.81. Paratypes BMNH 1926.7.12.82-83	Holotype and paratypes collected at Gorgona island				
Symphurus melanurus Clark, 1936	ICN-MHN 4804; CIRUV 78053; 81076; 88054; 011012					
Symphurus prolatinaris Munroe, Nizinski & Mahadeva, 1991	CIRUV 78052; 80124; 018035					
Symphurus undecimplerus Munroe & Nizinski, 1990	Paratype USNM 304450	Paratype collected south of Punta Ají, Buenaventura, Valle del Cauca				

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Paralichthyidae						
Ancylopsetta dendritica Gilbert, 1890	CIRUV 98006; 88002; 78047; 78046; 90009; 78048; 0010027					
Hippoglossina bollmani Gilbert, 1890	CIRUV 76002					
Hippoglossina montemaris de Buen, 1961	CIRUV 89059					
Hippoglossina tetrophthalma (Gilbert, 1890)	CIRUV 76003; 90010; 021945; 023084					
Ovalentaria						
Incertae sedis in Ovalentaria						
Opistognathidae						
Lonchopisthus sinuscalifornicus Castro-Aguirre & Villavicencio-Garayzar, 1988	CIRUV 9007; 00001; 90007; 90059; 91015					
Opistognathus fenmutis Acero P. & Franke, 1993	CIRUV 023068; 023374	Bussing and Lavenberg (2003) described four species of *Opistognathus* from the Eastern Pacific Ocean. In their work, both *O. punctatus* Peters, 1869 and *O. scops* (Jenkins & Evermann, 1889) were only included in the key as they were present on Gorgona island and had no support from material examined. Other than this citation, these species have not been reported or collected on the island. Therefore, we decided not to include them here.				
Opistognathus panamaensis Allen & Robertson, 1991	ICN-MHN 4671; CIRUV 023523					
Incertae sedis in Ovalentaria						
Pomacentridae						
Abudefduf concolor (Gill, 1862)	ICN-MHN 4732; CIRUV 78106; 0030029					
Abudefduf troschelii (Gill, 1862)	CIRUV 87015; 79079					
Azurina atrilobata (Gill, 1862)	ICN-MHN 4733; CIRUV 80274					
Chromis alta Greenfield & Woods, 1980	Underwater photography at Malpelo Island					Bessudo and Lefevre 2017
Microspathodon bairdii (Gill, 1862)	CIRUV 002-0032					
Microspathodon dorsalis (Gill, 1862)	CIRUV 79080; 023257; 023258					
Stegastes acapulcoensis (Fowler, 1944)	CIRUV 79081; 89065; 021320					
Stegastes arcifrons (Heller & Snodgrass, 1903)	Underwater photographs at Gorgona and Malpelo Island; PE					
Stegastes beebei (Nichols, 1924)	Underwater photographs at Gorgona and Malpelo Island					
Stegastes flavilatus (Gill, 1862)	CIRUV 018003; 021325					
Atheriniformes						
Atherinopsidae						
Atherinella pachylepis (Günther, 1864)	CIRUV 87003; 018039					
Atherinella panamensis Steindachner, 1875	CIRUV 011035					
Atherinella serrivomer Chernoff, 1986	CIRUV 005-008					
Atherinella starksi (Meek & Hildebrand, 1923)	CIRUV 80014					
Melanorhinus cyanellus (Meek & Hildebrand, 1923)	Underwater photography at Gorgona Island				x	
Membras gilberti (Jordan & Bollman, 1890)	CIRUV 80017; 89032; 011036; 023355					
Beloniformes						
Belonidae						
Ablennes hians (Valenciennes, 1846)	PE 91092					Franke and Acero 1996
Platybelone pterura (Osburn & Nichols, 1916)	PE 88137; 89052					Franke and Acero 1992

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Strongylura exilis (Girard, 1854)	CIRUV 80096					
Strongylura fluviatilis (Regan, 1903)	CIRUV 010109					
Strongylura scapularis (Jordan & Gilbert, 1882)	CIRUV 80034; 80035; 80036; 80037; 86035; 88196; 88099; 89029; 90011; 90034; 011188; 018020; 018021; 018048; 021346; 023210; 023253					
Tylosurus fodiator Jordan & Gilbert, 1882	ICN-MHN 4637; CIRUV 005107; 023416					
Tylosurus melanotus (Bleeker, 1850)	CIRUV 023372; PE					
Tylosurus pacificus (Steindachner, 1876)	CIRUV 89014					
Exocoetidae						
Cheilopogon xenopterus (Gilbert, 1890)	ICN-MHN 4638; CIRUV 005-233					
Cypselurus callopterus (Günther, 1866)	CIRUV 88215; 023011; 023012					
Exocoetus monocirrhus Richardson, 1846	CIRUV 88215					
Fodiator rostratus (Günther, 1866)	CIRUV 80159					
Parexocoetus brachypterus (Richardson, 1846)	PE 87083; CIRUV 018227; 023111					
Prognichthys sealei Abe, 1955	ICN-MHN 4639; CIRUV 015546					
Hemiramphidae						
Euleptorhamphus viridis (van Hasselt, 1823)	CIRUV 023019					
Hemiramphus saltator Gilbert & Starks, 1904	CIRUV 80410; 78189					
Hyporhamphus gilli Meek & Hildebrand, 1923	CIRUV 85090; 81106; 81107; 80188					
Hyporhamphus naos Banford & Collette, 2001	CIRUV 30192; 79055; 83148; 89030					
Hyporhamphus snyderi Meek & Hildebrand, 1923	CIRUV 02-014; 03-0051					
Oxyporhamphus micropterus (Valenciennes, 1847)	CIRUV 005-232					
Cyprinodontiformes						
Poeciliidae						
Poeciliopsis turrubarensis (Meek, 1912)	CIRUV 011069; 023308; 024066					
Mugiliformes						
Mugilidae						
Chaenomugil proboscideus (Günther, 1861)	CIRUV 93005; 93060; 88018; 80224; 81118; 87005					
Dajaus monticola (Bancroft, 1834)	CIRUV 94014; 015547; 019021					
Mugil cephalus Linnaeus, 1758	ICN-MHN 4635; CIRUV 81119; 81122; 88174; 88197; 79068; 79067; 80225; 80226; 80227; 80228; 80229; 80230; 81120; 81121; 89034					
Mugil hospes Jordan & Culver, 1895	CIRUV 04-0099					
Mugil setosus Gilbert, 1892	ICN-MHN 4636; CIRUV 76009; 80231; 80232; 80233; 80234; 88189; 90046	This Eastern Pacific mullet has been widely reported previously as *M. curema* Valenciennes, 1836, an Atlantic species				
Gobiesociformes						
Gobiesocidae						
Acyrtus arturo Tavera, Rojas-Vélez & Londoño-Cruz, 2021	CIRUV -019017; 020011		x	x		
Arcos decoris Briggs, 1969	ICN-MHN 4746; CIRUV 019031					
Arcos rhodospilus (Günther, 1864)	CIRUV 006004; CIRUV023530; 023562					
Gobiesox adustus Jordan & Gilbert, 1882	CIRUV 80169; 80171; 80170; 81098; 81099					
Gobiesox daedaleus Briggs, 1951	CIRUV 015539					
Gobiesox juradoensis Fowler, 1944	CIRUV 015550; 018192; 018198; 023332			x		
Gobiesox papillifer Gilbert, 1890	CIRUV 015562				x	
Tomicodon petersii (Garman, 1875)	CIRUV 006-008					
Tomicodon prodomus Briggs, 1969	CIRUV 81100					
Tomicodon sp.	CIRUV 017028			x		

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Tomicodon zebra (Jordan & Gilbert, 1882)	CIRUV 021107				x	
Blenniiformes						
Blenniidae						
Hypsoblennius brevipinnis (Günther, 1861)	ICN-MHN 4876 - ICN-MHN 4744; CIRUV 89006; 023167; 023353					
Hypsoblennius caulopus (Gilbert, 1898)	CIRUV 89006					
Hypsoblennius maculipinna (Regan, 1903)	CIRUV 022013; 022113; 022117					
Ophioblennius steindachneri Jordan & Evermann, 1898	CIRUV 75011; 78013; 79010; 80038; 80039; 018071; 021313; 023177					
Parahypsos piersoni (Gilbert & Starks, 1904)	CIRUV 80097; 011181					
Plagiotremus azaleus (Jordan & Bollman, 1890)	ICN-MHN 4745; CIRUV 015549; 021345; 023155;					
Chaenopsidae						
Acanthemblemaria balanorum Brock, 1940	CIRUV 025073					Hastings and Robertson 1999
Acanthemblemaria exilispinus Stephens, 1963	CIRUV 019018; 023329; 023331					
Acanthemblemaria hancocki Myers & Reid, 1936	CIRUV 015560					
Acanthemblemaria stephensi Rosenblatt & McCosker, 1988	CIRUV 01544; 018123; 023563			x		
Chaenopsis celeste Tavera, 2021	CIRUV 019053					
Chaenopsis deltarrhis Böhlke, 1957	Holotype CAS-SU 49250 [ex NYZS 28672]. Paratypes ANSP 75217; USNM 101950	Described from Gorgona Island				Böhlke 1957
Coralliozetus springeri Stephens & Johnson, 1966	CIRUV 024102					
Ekemblemaria myersi Stephens, 1963	CIRUV 0090025; 015553; 023246					
Emblemaria nivipes Jordan & Gilbert, 1883	Listed in published local inventories with voucher specimen from Gorgona island, reviewed by Stephens USNM 94020					Stephens 1963
Protemblemaria bicirrus (Hildebrand, 1946)	CIRUV 023343; 023345; 024101					
Labrisomidae						
Dialommus macrocephalus (Günther, 1861)	Photography at Chocó; CIRUV 025074					
Gobioclinus dendriticus (Reid, 1935)	CIRUV 91013					
Malacoctenus ebisui Springer, 1959	CIRUV 015558; 023330					
Malacoctenus margaritae (Fowler, 1944)	CIRUV 018085; 023349					
Malacoctenus sudensis Springer, 1959	CIRUV 79026; 80104; 010078; 010082; 020004; 022112					
Malacoctenus tetranemus (Cope, 1877)	CIRUV 023350					
Paraclinus mexicanus (Gilbert, 1904)	CIRUV 80105; 010081; 018074					
Starksia fulva Rosenblatt & Taylor, 1971	CIRUV 008-0109					
Stathmonotus culebrai Seale, 1940	CIRUV 024120					
Tripterygiidae						
Axoclinus lucillae Fowler, 1944	ICN-MHN 4879; CIRUV 0060011					
Axoclinus rubinoffi Allen & Robertson, 1992	CIRUV 018147; 18148; 18154		x	x		
Lepidonectes bimaculatus Allen & Robertson, 1992	CIRUV 018134; 018135; 018136; 018137; 018146; 019015		x	x		
Lepidonectes clarkhubbsi Bussing, 1991	Underwater photography at Chocó					
Eupercaria						
Incertae sedis in Eupercaria						
Malacanthidae						
Caulolatilus affinis Gill, 1865	ICN-MHN 4677 - ICN-MHN 4678; CIRUV 90017					
Caulolatilus princeps (Jenyns, 1840)	ICN-MHN 4679; Photo at Malpelo Island					
Malacanthus brevirostris Guichenot, 1848	CIRUV 017079; 023056					
Pomacanthidae						
Holacanthus passer Valenciennes, 1846	CIRUV 79077; 80271; 021324; 021330					

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Pomacanthus zonipectus (Gill, 1862)	CIRUV 79078; 85093; 023415; 023417					
Sciaenidae						
Bairdiella ensifera (Jordan & Gilbert, 1882)	ICN-MHN 4817; CIRUV 017006					
Corvula macrops (Steindachner, 1875)	CIRUV 017078					
Ctenosciaena peruviana Chirichigno, 1969	CIRUV 021218				x	
Cynoscion albus (Günther, 1864)	CIRUV 80294; 81163; 81164; 81165					
Cynoscion analis (Jenyns, 1842)	CIRUV 73003.1; 88090					
Cynoscion nortoni Béarez, 2001	CIRUV 017040; 021208; 023241					
Cynoscion phoxocephalus Jordan & Gilbert, 1882	CIRUV 78126; 79088; 80297; 81166; 85036; 79087; 70011; 80296; 80298; 81167; 88091; 88227					
Cynoscion reticulatus (Günther, 1864)	ICN-MHN 4818 - ICN-MHN 4819; CIRUV 80299; 81170; 81168; 81169; 83002					
Cynoscion squamipinnis (Günther, 1867)	CIRUV 75040; 80300; 80301; 88109; 88111					
Cynoscion stolzmanni (Steindachner, 1879)	CIRUV 72007					
Elattarchus archidium (Jordan & Gilbert, 1882)	CIRUV 88204; 80303; 88073; 88172					
Isopisthus altipinnis (Steindachner, 1866)	ICN-MHN 4725 - ICN-MHN 4726; CIRUV 0010045; 021105; 021147; 021234					
Larimus acclivis Jordan & Bristol, 1898	ICN-MHN 4729; CIRUV 016030; 70012; 78127; 88072; 89047; 0010050					
Larimus argenteus (Gill, 1863)	CIRUV 81171; 81173; 85059; 88019; 88121; 017003; 75041; 70013; 79091; 80304; 80305; 81172					
Larimus effulgens Gilbert, 1898	ICN-MHN 4727 - ICN-MHN 4728; CIRUV 016013; 016023; 016022; 79092; 88035; 88085; 0010097; 0010054; 005130					
Larimus pacificus Jordan & Bollman, 1890	CIRUV 78128; 79093					
Macrodon mordax (Gilbert & Starks, 1904)	ICN-MHN 4730; CIRUV 78128; 79093					
Menticirrhus elongatus (Günther, 1864)	CIRUV 91035; 010120; 021116					
Menticirrhus nasus (Günther, 1868)	CIRUV 70014; 81174; 88108; 010070; 010118; 018025					
Menticirrhus paitensis Hildebrand, 1946	CIRUV 010073; 018024					
Menticirrhus panamensis (Steindachner, 1876)	CIRUV 70015; 79094; 88040; 89020; 004-0143; 75042; 80305; 80306; 80307; 010119; 010111; 023267					
Micropogonias altipinnis (Günther, 1864)	CIRUV 79086; 80295					
Nebris occidentalis Vaillant, 1897	CIRUV 73003; 78129; 79095; 79096; 81176; 81177; 85058; 81178; 88074; 89018; 01189; 005-018011068; 011047; 012245; 021233					
Odontoscion xanthops Gilbert, 1898	CIRUV 78130					
Paralonchurus dumerilii (Bocourt, 1869)	CIRUV 76016; 78132; 78133; 80313; 85035; 016035; 018058; 022001					
Paralonchurus goodei Gilbert, 1898	CIRUV 010072; 010080; 011023; 016018					
Paralonchurus petersii Bocourt, 1869	CIRUV 72010; 78135; 78136; 80315; 80316; 81176; 81183; 88034; 88094; 88081; 010075; 010121; 011024					
Paralonchurus rathbuni (Jordan & Bollman, 1890)	CIRUV 88080; 89064					
Pareques lanfeari (Barton, 1947)	CIRUV 76017					
Stellifer chrysoleuca (Günther, 1867)	CIRUV 72011; 81184; 79101; 80317; 010142					
Stellifer ephelis Chirichigno F., 1974	CIRUV 88087; 88093					
Stellifer ericymba (Jordan & Gilbert, 1882)	CIRUV 016017; 016020; 79102; 69003; 79103; 80318; 88104; 90060; 006015; 010054; 016017; 016020					
Stellifer fuerthii (Steindachner, 1875)	CIRUV 70017; 79104; 80319; 85033; 88021; 88086; 88092; 88135; 88021; 88136; 88137; 88021; 006017; 007106; 010055; 010140; 021117					
Stellifer illecebrosus Gilbert, 1898	CIRUV 88017					

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Stellifer imiceps (Jordan & Gilbert, 1882)	CIRUV 88096; 81179; 011021; 016033	The type species of *Ophioscion*, *O. typicus* Gill, 1863, is phylogenetically nested within the genus *Stellifer* (Chao et al. 2021).				
Stellifer mancorensis Chirichigno F., 1962	CIRUV 72012; 79105; 85034; 88106; 010053; 011192; 016019; 021114; 021115; 021187; 021194; 023246; 023297					
Stellifer melanocheir Eigenmann, 1918	CIRUV 005-054; 006014; 010052; 011193; 016011; 016012; 023107					
Stellifer oscitans (Jordan & Gilbert, 1882)	CIRUV 018027					
Stellifer pizarroensis Hildebrand, 1946	CIRUV 85032; 88018					
Stellifer scierus (Jordan & Gilbert, 1884)	CIRUV 80310; 81180; 86022; 88016; 89019; 021128; 023055	Previously *Ophioscion*. *Ophioscion obscurus* Hildebrand, 1946, is a junior synonym of *S. scierus* (Chao et al. 2021).				
Stellifer strabo (Gilbert, 1897)	CIRUV 80311; 81181; 89022; 010144; 011022; 021112; 021113					
Stellifer typicus (Gill, 1863)	CIRUV 74004; 79098; 80312; 88224; 89021; 004-0111; 010141; 018018; 023042					
Stellifer zestocarus Gilbert, 1898	CIRUV 80320; 88105; 81185; 004-064; 006016; 010051; 016016; 023098; 0023243					
Umbrina analis Günther, 1868	CAS-ICH 62853	Described as *U. tumacoënsis* Wilson, 1916, a synonym of *U. analis*. Not a type but in a type series				
Umbrina bussingi López S., 1980	CIRUV 021260					
Umbrina dorsalis Gill, 1862	CIRUV 81187					
Umbrina xanti Gill, 1862	CIRUV 70018; 81188; 87022; 017046; 023150					
Gerreiformes						
Gerreidae						
Deckertichthys aureolus (Jordan & Gilbert, 1882)	CIRUV 0010045; 0010020; 88041; 81155					
Diapterus brevirostris (Sauvage, 1879)	CIRUV 0010034; 0010021; 80164; 81092; 86011; 88201; 88219; 78066; 78067; 79046; 79047; 80162; 80163; 81093; 88113	*Diapterus peruvianus* (Cuvier, 1830) is considered a synonym of this species. However, Love et al. (2021) and Froese and Pauly (2023) present both species as different.				
Eucinostomus currani Zahuranec, 1980	CIRUV 88202; 016032; 018014; 023035; 023236					
Eucinostomus entomelas Zahuranec, 1980	CIRUV 016031; 023194					
Eucinostomus gracilis (Gill, 1862)	ICN-MHN 4713 - ICN-MHN 4714; CIRUV 78070; 80168; 81097; 88042					
Eugerres brevimanus (Günther, 1864)	CIRUV 78071; 85028; 010136; 018045					
Eugerres lineatus (Humboldt, 1821)	CIRUV 025075					
Gerres simillimus Regan, 1907	ICN-MHN 4715 - ICN-MHN 4716; CIRUV 88159; 88179; 78029					
Uranoscopiformes						
Ammodytidae						
Ammodytoides gilli (Bean, 1895)	CIRUV 86036					
Uranoscopidae						
Kathetostoma averruncus Jordan & Bollman, 1890	CIRUV 76020; 80801; 80502; 021223					
Labriformes						
Labridae						
Bodianus diplotaenia (Gill, 1862)	ICN-MHN 4736; CIRUV 79058					
Decodon melasma Gomon, 1974	CIRUV 91025; 023116					

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Halichoeres aestuaricola Bussing, 1972	CIRUV 88181; 88182; 011041; 011065; 015543; 023261					
Halichoeres chierchiae Di Caporiacco, 1948	Underwater photography at Gorgona Island					Rubio et al. 1987a; Muñoz and Zapata 2013
Halichoeres discolor Bussing, 1983	Underwater photography at Malpelo Island		x			Bessudo and Lefevre 2017
Halichoeres dispilus (Günther, 1864)	CIRUV 75032; 79059; 80203; 80204; 80205; 85027					
Halichoeres inornatus (Gilbert, 1890)	Underwater photography at Malpelo Island		x			
Halichoeres malpelo Allen & Robertson, 1992	CIRUV 018155; 018156; 019016; 019032	Considered endemic, but molecular evidence indicates that it may also be present at Cocos Islands.	x			Unpubl. data
Halichoeres nicholsi (Jordan & Gilbert, 1882)	CIRUV 022132; 022132					
Halichoeres notospilus (Günther, 1864)	CIRUV 79061; 80206; 80207; 80208; 81108					
Iniistius pavo (Valenciennes, 1840)	CIRUV 79060					
Novaculichthys taeniourus (Lacepède, 1801)	CIRUV 023264					
Polylepion cruentum Gomon, 1977	CIRUV 021290					
Scarus compressus (Osburn & Nichols, 1916)	Underwater photography at Gorgona Island					
Scarus ghobban Fabricius, 1775	CIRUV 78121; 021347; 022122; 023072					
Scarus perrico Jordan & Gilbert, 1882	CIRUV 018102; 018112					
Scarus rubroviolaceus Bleeker, 1847	CIRUV 018118					
Stethojulis bandanensis (Bleeker, 1851)	Underwater photography at Gorgona Island					Zapata and Morales 1997; Muñoz and Zapata 2013
Thalassoma grammaticum Gilbert, 1890	Underwater photography at Gorgona Island					Zapata and Morales 1997; Muñoz and Zapata 2013
Thalassoma lucasanum (Gill, 1862)	CIRUV 79062; 79063; 80209; 80210; 018079; 019059; 019111; 019113; 021285; 021286; 023103					
Ephippiformes						
Ephippidae						
Chaetodipterus zonatus (Girard, 1858)	ICN-MHN 4765; CIRUV 85045; 78062; 78063; 80152; 80155; 81087; 86013; 0010090; 75027; 90049; 80153					
Parapsettus panamensis (Steindachner, 1875)	ICN-MHN 4766; CIRUV 80158; 016036; 88140; 0010088; 81244; 0010096; 79045; 68001; 75028; 78064; 80156; 80157; 81088; 81089; 81090					
Chaetodontiformes						
Chaetodontidae						
Chaetodon humeralis Günther, 1860	CIRUV 86003; 88027; 89002; 01712; 79034; 78054; 78055; 78056; 80131; 81038; 86031					
Johnrandallia nigrirostris (Gill, 1862)	CIRUV 75022; 79033; 80129; 80130; 019093; 021283; 023026					
Prognathodes carlhubbsi Nalbant, 1995	ROV underwater photography at deep mountains at Malpelo-Yuruparí		x			
Acanthuriformes						
Acanthuridae						
Acanthurus nigricans (Linnaeus, 1758)	CIRUV 022121					
Acanthurus triostegus (Linnaeus, 1758)	CIRUV 018073; 020005; 022124					
Acanthurus xanthopterus Valenciennes, 1835	CIRUV 017010; 022120					
Ctenochaetus marginatus (Valenciennes, 1835)	CIRUV 022123; 0030014	Based on molecular evidence this surgeonfish species is nested within the genus *Acanthurus*				Sorenson et al. 2013

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Prionurus laticlavius (Valenciennes, 1846)	PE 88084; CIRUV 023434					
Luvaridae						
Luvarus imperialis Rafinesque, 1810	CIRUV 025076					
Zanclidae						
Zanclus cornutus (Linnaeus, 1758)	CIRUV 79123					
Lutjaniformes						
Haemulidae						
Anisotremus caesius (Jordan & Gilbert, 1882)	CIRUV 021158					
Anisotremus interruptus (Gill, 1862)	CIRUV 016003; 81145; 85037; 87001.1					
Anisotremus taeniatus Gill, 1861	Underwater photographs at Gorgona Island and Chocó					Tobón-López et al. 2008
Conodon serrifer Jordan & Gilbert, 1882	CIRUV 78113; 81149; 88056; 90023					
Genyatremus dovii (Günther, 1864)	CIRUV 78107; 78108; 78109; 85055; 016002					
Genyatremus pacifici (Günther, 1864)	CIRUV 85046; 81147; 78110; 78111; 78112; 81146					
Haemulon flaviguttatum Gill, 1862	Underwater photographs at Gorgona Island and Chocó					
Haemulon maculicauda (Gill, 1862)	CIRUV 79083; 89060; 89057					
Haemulon scudderii Gill, 1862	CIRUV 016005; 89024					
Haemulon sexfasciatum Gill, 1862	CIRUV 80283; 80284; 87010					
Haemulon steindachneri (Jordan & Gilbert, 1882)	CIRUV 018092					
Haemulopsis axillaris (Steindachner, 1869)	CIRUV 0010055					
Haemulopsis elongata (Steindachner, 1879)	CIRUV 023061					
Haemulopsis leuciscus (Günther, 1864)	CIRUV 017064; 021129; 022076; 023040					
Haemulopsis nitida (Steindachner, 1869)	CIRUV 0010083; 89025; 90041; 80280; 80281; 81148; 81151; 87008; 89044					
Microlepidotus brevipinnis (Steindachner, 1869)	CIRUV 017031; 023463					
Orthopristis chalcea (Günther, 1864)	CIRUV 78119; 80286; 88163; 016068					
Pomadasys empherus Bussing, 1993	CIRUV 017013; 010125; 016074; 18034; 023209; 023250; 023335; 023453	Provisionally retained under *Pomadasys* pending a phylogenetic study: the genus *Pomadasys* has no species in the New World.			x	
Rhencus macracanthus (Günther, 1864)	CIRUV 81152; 80285; 018066; 018067					
Rhencus panamensis (Steindachner, 1876)	CIRUV 0010084; 70009; 78116; 79084; 80122; 80285; 88119; 89010; 005-126; 81154; 78117; 81153; 80285; 88022; 88075; 88168; 90035					
Rhonciscus bayanus (Jordan & Evermann, 1898)	CIRUV 94022; 94016; 018105; 018088					
Rhonciscus branickii (Steindachner, 1879)	CIRUV 88200; 021060; 023028; 023032; 023445; 023466; 023457					
Xenichthys xanti Gill, 1863	CIRUV 70022; 78186; 78187; 78188					
Lutjanidae						
Aphareus furca (Lacepède, 1801)	Underwater photography at Malpelo Island		x			Bessudo and Lefevre 2017
Hoplopagrus guentherii Gill, 1862	ICN-MHN 4705; CIRUV 80213					
Lutjanus aratus (Günther, 1864)	CIRUV 80214; 81111					
Lutjanus argentiventris (Peters, 1869)	CIRUV 95001; 80216; 80225; 89054; 80215; 87014; 91023; 76006					
Lutjanus colorado Jordan & Gilbert, 1882	CIRUV 016006; 78084					
Lutjanus guttatus (Steindachner, 1869)	ICN-MHN 4706 ICN-MHN 4707 - ICN-MHN 4708; CIRUV 005-0227; 0010081; 001009; 79130; 81112; 85070; 86016; 88186; 85042					
Lutjanus inermis (Peters, 1869)	CIRUV 86026; 023033; 023034; 023080; 023255					
Lutjanus jordani (Gilbert, 1898)	CIRUV 88015; 010116; 011184; 018004; 018049; 023251					
Lutjanus novemfasciatus Gill, 1862	ICN-MHN 4709; CIRUV 016001; 016043					
Lutjanus peru (Nichols & Murphy, 1922)	CIRUV 016044; 023428; 023455					
Lutjanus viridis (Valenciennes, 1846)	CIRUV 88014; 021328; 021329; 023060					

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Lobotiformes						
Lobotidae						
Lobotes pacifica Gilbert, 1898	ICN-MHN 4710 ICN-MHN 4711 - ICN-MHN 4712; CIRUV 81109; 81110; 85091; 015563					
Spariformes						
Sparidae						
Calamus brachysomus (Lockington, 1880)	PE 88096					
Priacanthiformes						
Priacanthidae						
Cookeolus japonicus (Cuvier, 1829)	CIRUV 018249					
Heteropriacanthus carolinus (Cuvier, 1829)	CIRUV 023252					
Pristigenys serrula (Gilbert, 1891)	ICN-MHN 4672 - ICN-MHN 4673; CIRUV 76012; 023418					
Lophiiformes						
Antennariidae						
Abantennarius sanguineus (Gill, 1863)	ICN-MHN 4631; CIRUV 80005; 79001					
Antennarius commerson (Anonymous, 1798)	Underwater photography at Gorgona Island; USNM 207011					Castellanos-Galindo et al. 2006b
Antennatus strigatus (Gill, 1863)	CIRUV 0090038					
Fowlerichthys avalonis (Jordan & Starks, 1907)	ICN-MHN 4630 CIRUV 91012; 85063; 75001; 76001; 80004; 8000; 91012; 85063; 80003					
Linophrynidae						
Photocorynus spiniceps Regan, 1925	SIO 69-351, 75-452; ZMUC P 92134;					Castellanos-Galindo et al. 2006b
Lophiidae						
Lophiodes caulinaris (Garman, 1899)	ICN-MHN 4628 - ICN-MHN 4629; CIRUV 76005; 70007; 71006; 76005; 80211; 80212; 91009; 85082; 76005; 90014; 021209; 021244; 023149					
Lophiodes spilurus (Garman, 1899)	CIRUV 95014					
Ogcocephalidae						
Dibranchus erinaceus (Garman, 1899)	INV PEC5812, INV PEC5814, INV PEC5815, INV PEC8834, INV PEC8835, INV PEC8836, INV PEC8838	The fish identified in INVEMAR collection as *Dibranchus hystrix* Garman, 1899, is actually *D. erinaceus*			x	
Dibranchus nudivomer (Garman, 1899)	INV PEC8827, INV PEC8828, INV PEC8829, INV PEC8830, INV PEC8831, INV PEC8832				x	
Dibranchus spinosus (Garman, 1899)	INV PEC8833, INV PEC8837				x	
Ogcocephalus porrectus Garman, 1899	Underwater photography at Malpelo Island; ROV underwater photography at deep mountains at Malpelo-Yurupari		x			
Zalieutes elater (Jordan & Gilbert, 1882)	CIRUV 76010; 78098; 80154; 80248; 80249; 85077; 90008; 021052; 021081; 021110; 021255					
Oneirodidae						
Dolopichthys pullatus Regan & Trewavas, 1932	NYZC 28769					Castellanos-Galindo et al. 2006b
Tetraodontiformes						
Balistidae						
Balistes naufragium (Jordan & Starks, 1895)	CIRUV 78007; 80027; 80028; 81008; 81611; 85080; 010001; 023425	Santini et al. (2013) in their phylogenetic study demonstrated that this species should not be included in *Pseudobalistes* but in *Balistes*				
Balistes polylepis Steindachner, 1876	CIRUV 78006; 81037					
Canthidermis maculata (Bloch, 1786)	CIRUV 17024					
Melichthys niger (Bloch, 1786)	CIRUV 90040; 0030070; 016077					
Melichthys vidua (Richardson, 1845)	Underwater photography at Malpelo Island		x			Bessudo and Lefevre 2017
Sufflamen verres (Gilbert & Starks, 1904)	ICN-MHN 4809 - ICN-MHN 4810; CIRUV 78025; 80025; 80026; 0030036; 018017; 021097; 022125; 023021; 023133; 023472					

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Xanthichthys caeruleolineatus Randall, Matsuura & Zama, 1978	Underwater photography at Malpelo Island					Bessudo and Lefevre 2017
Xanthichthys mento (Jordan & Gilbert, 1882)	CIRUV 80024; 018016					
Diodontidae						
Chilomycterus reticulatus (Linnaeus, 1758)	MMG 90154					
Diodon holocanthus Linnaeus, 1758	CIRUV 002-003; 016021; 85011					
Diodon hystrix Linnaeus, 1758	CIRUV 78043; 023013; 023057					
Molidae						
Mola alexandrini (Ranzani, 1834)	Landing photograph					
Monacanthidae						
Aluterus monoceros (Linnaeus, 1758)	CIRUV 81113; 78087; 78088; 79065; 81115; 81014; 81016; 81014					
Aluterus scriptus (Osbeck, 1765)	ICN-MHN 4811 - ICN-MHN 4812; CIRUV 79066					
Cantherhines dumerilii (Hollard, 1854)	Underwater photography at Malpelo Island					Bessudo and Lefevre 2017
Ostraciidae						
Ostracion meleagris Shaw, 1796	Underwater photographs at Gorgona and Malpelo Island					Rubio et al. 1987a; Zapata and Morales 1997
Tetraodontidae						
Arothron hispidus (Linnaeus, 1758)	CIRUV 78170; 80387; 78172; 001005; 80328; 78117; 78170					
Arothron meleagris (Anonymous, 1798)	CIRUV 78173					
Canthigaster janthinoptera (Bleeker, 1855)	CIRUV 75047					
Canthigaster punctatissima (Günther, 1870)	CIRUV 78174; 80392; 003-0015					
Lagocephalus lagocephalus (Linnaeus, 1758)	CIRUV 81235; 78176; 81236					
Sphoeroides annulatus (Jenyns, 1842)	ICN-MHN 4813; CIRUV 005-101; 79129; 81232; 80393; 80899; 80398; 79125; 78175; 90055; 80400; 80396; 80397; 80394; 86001; 85010; 81233; 75048; 49; 81231; 88025; 005114					
Sphoeroides lobatus (Steindachner, 1870)	ICN-MHN 4814 - ICN-MHN 4815 – ICN-MHN 4816; CIRUV 80403; 80402; 0010098; 88026; 84041; 81234; 600989					
Sphoeroides rosenblatti Bussing, 1996	CIRUV 90055; 79125; 79124; 005016; 85002; 003110; 005-014; 009070; 89039; 00987; 005045; 005-015; 85012					
Sphoeroides trichocephalus (Cope, 1870)	CIRUV 85011; 002-003; 011003; 011067; 011175; 016021; 018047; 021236; 023146					
Acropomatiformes						
Malakichthyidae						
Hemilutjanus macrophthalmos (Tschudi, 1846)	CIRUV 010162	This species has been traditionally identified under Serranidae. Yet, Parenti and Randall (2020) erected a new family (Hemilutjanidae) for it without any formal phylogenetic study. We follow Smith et al. (2022) and place this species in the order Acropomatiformes and the family Malakichthyidae.				
Centrarchiformes						
Cirrhitidae						
Cirrhitichthys oxycephalus (Bleeker, 1855)	CIRUV 79019; 80100; 80101; 80102; 80103; 81248					
Cirrhitus rivulatus Valenciennes, 1846	CIRUV 91027					
Oxycirrhites typus Bleeker, 1857	Underwater photographs at Gorgona, Malpelo Island and Chocó					
Kuhliidae						
Kuhlia mugil (Forster, 1801)	CIRUV 80198; 018099; 023123					
Kyphosidae						

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Kyphosus elegans (Peters, 1869)	CIRUV 79057; 021136; 021333; 023121					
Kyphosus ocyurus (Jordan & Gilbert, 1882)	CIRUV 80202; 80201; 018100; 023074					
Kyphosus vaigiensis (Quoy & Gaimard, 1825)	PE 92075; 023051; 023120					
Perciformes						
Liparidae						
Eknomoliparis chirichignoae Stein, Meléndez C. & Kong U., 1991	CIRUV 95021				x	
Peristediidae						
Peristedion barbiger Garman, 1899	CIRUV 017044; 021210; 023118					
Scorpaenidae						
Pontinus clemensi Fitch, 1955	CIRUV 80322; 99001; 023437					
Pontinus furcirhinus Garman, 1899	CIRUV 010040					
Pontinus sierra (Gilbert, 1890)	CIRUV 95003; 010041; 010151; 021231					
Pontinus sp. A	ICN-MHN 4658; CIRUV 025077	Undescribed species has a known distribution from Southern Baja California to northern Peru (Robertson and Allen 2015). Frequently caught in Colombia by deep shrimp trawlers.				
Pontinus strigatus Heller & Snodgrass, 1903	ROV underwater photography at deep mountains at Malpelo-Yuruparí		x		x	
Scorpaena afuerae Hildebrand, 1946	CIRUV 98005					
Scorpaena histrio Jenyns, 1840	CIRUV 80503; 78138; 80325; 81189					
Scorpaena mystes Jordan & Starks, 1895	ICN-MHN 4660 - ICN-MHN 4661; CIRUV 78139; 78140; 78159; 80326; 80327; 82001; 023001; 023005; 023122; 023152					
Scorpaena russula Jordan & Bollman, 1890	CIRUV 80328; 72013; 80329; 80330; 81190; 86033; 90013					
Scorpaenodes rubrivinctus Poss, McCosker & Baldwin, 2010	ROV underwater photography at deep mountains at Malpelo-Yuruparí		x		x	
Scorpaenodes xyris (Jordan & Gilbert, 1882)	ICN-MHN 4659; CIRUV 020001; 020024; 022104; 022105; 022106; 022010; 022014; 022017; 022018; 022019; 023338	A recent article (Victor 2024) presented evidence of two different genetic lineages in the TEP, one from the Galapagos Islands (*S. xyris*) and another from the mainland [*S. chincha* (Nichols & Murphy, 1922)]. We acknowledge this divergence, but in the absence of molecular data and given that we have one population from Malpelo and another from the mainland, we have cautiously decided to retain only *S. xyris* pending further studies.				
Serranidae						
Alphestes immaculatus Breder, 1936	CIRUV 022020; 022020; 022118					
Alphestes multiguttatus (Günther, 1867)	CIRUV 78142; 78143; 90025					
Anthias noeli Anderson & Baldwin, 2000	ROV underwater photography at deep mountains at Malpelo-Yuruparí		x		x	
Baldwinella eos (Gilbert, 1890)	CIRUV 021212					
Cephalopholis colonus (Valenciennes, 1846)	CIRUV 79113; 80348; 80349; 80350; 80351; 89056					
Cephalopholis panamensis (Steindachner, 1876)	ICN-MHN 4663; CIRUV 020026; 021332; 022108					
Dermatolepis dermatolepis (Boulenger, 1895)	Underwater photographs at Gorgona and Malpelo Island					Rubio et al. 1987a; Bessudo and Lefevre 2017
Diplectrum eumelum Rosenblatt & Johnson, 1974	CIRUV 0010016; 0010032; 0010048; 78145					
Diplectrum euryplectrum Jordan & Bollman, 1890	CIRUV 78146					
Diplectrum labarum Rosenblatt & Johnson, 1974	CIRUV 016072; 021067					

Taxa	Records	Comments	Only Malpelo Island	Endemic	New records	References
Diplectrum macropoma (Günther, 1864)	CIRUV 77003; 78147; 81193; 81194; 90019; 81195; 80333; 85015; 85067; 88102					
Diplectrum maximum Hildebrand, 1946	CIRUV 88103; 023441; 023456					
Diplectrum pacificum Meek & Hildebrand, 1925	CIRUV 78148; 70149; 80334; 80335; 88101; 81196; 86021; 90018					
Diplectrum rostrum Bortone, 1974	ICN-MHN 4664; CIRUV 78050; 80336; 80337; 81197					
Epinephelus analogus Gill, 1863	CIRUV 85014; 78151; 85013; 88077; 0010095; 78152.1; 79108; 80338; 80339; 80340; 81198; 81199; 81200; 81201; 81202; 81203					
Epinephelus labriformis (Jenyns, 1840)	CIRUV 79112; 0002; 78153; 78154; 79109; 79110; 79111; 80341; 80342					
Epinephelus quinquefasciatus (Bocourt, 1868)	CIRUV 010108; 011037; 018011; 021066					
Hemanthias peruanus (Steindachner, 1875)	ICN-MHN 4665; CIRUV 80343; 80344; 80345; 81206; 91029; 80346					
Hemanthias signifer (Garman, 1899)	CIRUV 70020; 76018; 80332; 90016					
Hyporthodus acanthistius (Gilbert, 1892)	CIRUV 78144; 81191; 88055; 81192; 81247; 86018					
Hyporthodus cifuentesi (Lavenberg & Grove, 1993)	CIRUV 023440; 023462; ROV underwater photography at deep mountains at Malpelo-Yuruparí					
Hyporthodus exsul (Fowler, 1944)	CIRUV 022011				x	
Hyporthodus mystacinus (Poey, 1852)	ROV underwater photography at deep mountains at Malpelo-Yuruparí		x		x	
Hyporthodus niphobles (Gilbert & Starks, 1897)	CIRUV 00110047; 80331; 017035; 023019; 023429					
Liopropoma fasciatum Bussing, 1980	CIRUV 021298; 023227; 023524					
Liopropoma longilepis Garman, 1899	ROV underwater photography at deep mountains at Malpelo-Yuruparí		x		x	
Mycteroperca olfax (Jenyns, 1840)	CIRUV 78156					
Mycteroperca xenarcha Jordan, 1888	PE 87045; PE 87025; CIRUV 023254; 023465					
Paralabrax callaensis Starks, 1906	CIRUV 023427					
Paralabrax loro Walford, 1936	CIRUV 017042					
Pronotogrammus multifasciatus Gill, 1863	CIRUV 017054; ROV underwater photography at deep mountains at Malpelo-Yuruparí					
Pseudogramma thaumasia (Gilbert, 1900)	CIRUV 80355; 80356; 80357; 83007; 020019; 023159					
Rypticus bicolor Valenciennes, 1846	CIRUV 79054; 88062; 88089; 010014; 023263					
Rypticus nigripinnis Gill, 1861	ICN-MHN 4666; CIRUV 75030; 78075; 78076; 78077; 78078; 80187; 86014; 85048; 88078; 88207; 89048; 005-157; 010013; 010129; 011006; 011186; 018050; 021225; 023144					
Serranus psittacinus Valenciennes, 1846	CIRUV 75044; 78152; 80354; 020023; 021314; 021316; 023522					
Serranus tico Allen & Robertson, 1998	CIRUV 023521		x			
Triglidae						
Bellator gymnostethus (Gilbert, 1892)	CIRUV 021230					
Bellator loxias (Jordan, 1897)	CIRUV 021050					
Bellator xenisma (Jordan & Bollman, 1890)	CIRUV 021051					
Prionotus albirostris Jordan & Bollman, 1890	CIRUV 70021					
Prionotus ruscarius Gilbert & Starks, 1904	ICN-MHN 4662; CIRUV 78180; 80408; 017033					
Prionotus stephanophrys Lockington, 1881	CIRUV 76019; 80403; 81240; 90011; 001001; 021049; 023002; 023009; 023047; 023435; 023436; 023460; 021049					
Prionotus teaguei Briggs, 1956	CIRUV 021242					

Table 2. Fish species reported north (Panama) and south (Ecuador) of the Colombian marine Pacific waters without vouchered specimens in Colombia.

Lamniformes	Alopiidae	*Alopias vulpinus* (Bonnaterre, 1788)
Lamniformes	Lamnidae	*Isurus oxyrinchus* Rafinesque, 1810
Carcharhiniformes	Sphyrnidae	*Sphyrna zygaena* (Linneaus, 1758)
Torpediniformes	Narcinidae	*Diplobatis ommata* (Jordan y Gilbert, 1890)
Rhinopristiformes	Rhinobatidae	*Pseudobatos planiceps* (Garman, 1880)
Myliobatiformes	Dasyatidae	*Pteroplatytrygon violácea* (Bonaparte, 1832)
Myliobatiformes	Mobulidae	*Mobula mobular* (Bonaterre, 1788)
Myliobatiformes	Mobulidae	*Mobula tarapacana* (Philippi, 1893)
Myliobatiformes	Urotrygonidae	*Urotrygon chilensis* (Günther, 1872)
Myliobatiformes	Urotrygonidae	*Urotrygon reticulata* Miyake & McEachran, 1988
Anguilliformes	Ophichthidae	*Letharchus rosenblatti* McCosker, 1974
Anguilliformes	Ophichthidae	*Ophichthus tetratrema* McCosker & Rosenblatt, 1998
Clupeiformes	Dussumieriidae	*Etrumeus acuminatus* Gilbert, 1890
Clupeiformes	Pristigasteridae	*Opisthopterus macrops* (Günther, 1867)
Scombriformes	Scombridae	*Auxis eudorax Collette & Aadland, 1996*
Gobiiformes	Gobiidae	*Akko brevis* (Günther, 1864)
Gobiiformes	Gobiidae	*Bollmannia macropoma* Gilbert, 1892
Gobiiformes	Gobiidae	*Bollmannia marginalis* Ginsburg, 1939
Gobiiformes	Gobiidae	*Bollmannia ocellata* Gilbert, 1892
Gobiiformes	Gobiidae	*Gobiosoma paradoxum* (Günther, 186i)
Gobiiformes	Gobiidae	*Gymneleotris seminuda* (Günther, 1864)
Gobiiformes	Gobiidae	*Microgobius crocatus* Birdsong, 1968
Gobiiformes	Gobiidae	*Microgobius curtus* Ginsburg, 1939
Gobiiformes	Gobiidae	*Microgobius miraflorensis* Gilbert & Starks, 1904
Gobiiformes	Oxudercidae	*Gobioides peruanus* (Steindachner, 1880)
Gobiiformes	Oxudercidae	*Gobionellus microdon* (Gilbert, 1892)
Istiophoriformes	Istiophoridae	*Istiompax indica* (Cuvier, 1832)
Istiophoriformes	Istiophoridae	*Kajikia audax* (Philippi, 1887)
Istiophoriformes	Istiophoridae	*Tetrapturus angustirostris* Tanaka, 1915
Carangiformes	Centropomidae	*Centropomus viridis* Lockington, 1877
Carangiformes	Echeneidae	*Remora australis* (Bennett, 1840)
Carangiformes	Echeneidae	*Remora brachyptera* (Lowe, 1839)
Carangiformes	Echeneidae	*Remora osteochir* (Cuvier, 1829)
Pleuronectiformes	Bothidae	*Engyophrys sanctilaurentii* Jordan & Bollman, 1890
Pleuronectiformes	Bothidae	*Perissias taeniopterus* (Gilbert, 1890)
Pleuronectiformes	Cynoglossidae	*Symphurus atramentatus* Jordan & Bollman, 1890
Pleuronectiformes	Cynoglossidae	*Symphurus melasmatotheca* Munroe & Nizinski, 1990
Pleuronectiformes	Cynoglossidae	*Symphurus oligomerus* Mahadeva & Munroe, 1990
Pleuronectiformes	Cyclopsettidae	*Etropus ectenes* Jordan, 1889
Pleuronectiformes	Cyclopsettidae	*Syacium ovale* (Günther, 1864)
Pleuronectiformes	Paralichthyidae	*Paralichthys woolmani* Jordan & Williams, 1897
Beloniformes	Exocoetidae	*Exocoetus volitans* Linnaeus, 1758
Beloniformes	Exocoetidae	*Hirundichthys marginatus* (Nichols & Breder, 1928)
Beloniformes	Exocoetidae	*Hirundichthys rondeletii* (Valenciennes, 1847)
Mugiliformes	Mugilidae	*Mugil thoburni* Jordan & Starks, 1896
Blenniiformes	Blenniidae	*Scartichthys gigas* (Steindachner, 1876)
Blenniiformes	Dactyloscopidae	*Dactyloscopus fallax* Dawson, 1975
Blenniiformes	Dactyloscopidae	*Dactyloscopus fimbriatus* (Reid, 1935)
Blenniiformes	Dactyloscopidae	*Heteristius cinctus* (Osburn & Nichols, 1916)
Blenniiformes	Labrisomidae	*Labrisomus multiporosus* Hubbs, 1953
Incertae sedis in Eupercaria	Sciaenidae	*Cynoscion praedatorius* (Jordan & Gilbert, 1889)
Incertae sedis in Eupercaria	Sciaenidae	*Stellifer vermicularis* (Günther, 1867)
Incertae sedis in Eupercaria	Sciaenidae	*Paralonchurus peruanus* (Steindachner, 1875)
Gerreiformes	Gerreidae	*Eucinostomus dowii* (Gill, 1863)
Uranoscopiformes	Uranoscopidae	*Astroscopus zephyreus* Gilbert & Starks, 1897
Labriformes	Labridae	*Nicholsina denticulata* (Evermann & Radcliffe, 1917)
Tetraodontiformes	Tetraodontidae	*Sphoeroides kendalli* Meek & Hildebrand, 1928
Tetraodontiformes	Tetraodontidae	*Sphoeroides sechurae* Hildebrand, 1946
Perciformes	Triglidae	*Prionotus birostratus* Richardson, 1844

Table 3. Fish species reported only from larvae from the Colombian marine Pacific waters.

Order	Familiy	Species
Notacanthiformes	Notacanthidae	*Leptocephalus giganteus* Castle, 1959
Anguilliformes	Congridae	*Paraconger similis* (Wade, 1946)
Anguilliformes	Derichthyidae	*Derichthys serpentinus* Gill, 1884
Anguilliformes	Muraenidae	*Gymnothorax mordax* (Ayres, 1859)
Anguilliformes	Nettastomatidae	*Hoplunnis sicarius* (Garman, 1899)
Anguilliformes	Ophichthidae	*Myrophis vafer* Jordan & Gilbert, 1883
Anguilliformes	Ophichthidae	*Pseudomyrophis micropinna* Wade, 1946
Argentiniformes	Bathylagidae	*Bathylagoides nigrigenys* (Parr, 1931)
Stomiiformes	Gonostomatidae	*Leuroglossus urotranus* Bussing, 1965
Stomiiformes	Gonostomatidae	*Cyclothone acclinidens* Garman, 1899
Stomiiformes	Gonostomatidae	*Cyclothone signata* Garman, 1899
Stomiiformes	Gonostomatidae	*Diplophos proximus* Parr, 1931
Stomiiformes	Phosichthyidae	*Vinciguerria lucetia* (Garman, 1899)
Stomiiformes	Sternoptychidae	*Argyropelecus lychnus* Garman, 1899
Stomiiformes	Sternoptychidae	*Argyropelecus sladeni* Regan, 1908
Stomiiformes	Sternoptychidae	*Maurolicus muelleri* (Gmelin, 1789)
Stomiiformes	Sternoptychidae	*Sternoptyx diaphana* Hermann, 1781
Stomiiformes	Sternoptychidae	*Sternoptyx obscura* Garman, 1899
Stomiiformes	Stomiidae	*Idiacanthus antrostomus* Gilbert, 1890
Aulopiformes	Aulopidae	*Hime* sp.
Aulopiformes	Notosudidae	*Scopelosaurus* sp.
Aulopiformes	Paralepididae	*Lestidiops neles* (Harry, 1953)
Aulopiformes	Paralepididae	*Lestidiops pacificus* (Parr, 1931)
Aulopiformes	Paralepididae	*Stemonosudis macrura* (Ege, 1933)
Aulopiformes	Scopelarchidae	*Rosenblattichthys volucris* (Rofen, 1966)
Aulopiformes	Scopelarchidae	*Scopelarchoides nicholsi* Parr, 1929
Myctophiformes	Myctophidae	*Benthosema panamense* (Tåning, 1932)
Myctophiformes	Myctophidae	*Bolinichthys longipes* (Brauer, 1906)
Myctophiformes	Myctophidae	*Diaphus pacificus* Parr, 1931
Myctophiformes	Myctophidae	*Diogenichthys atlanticus* (Tåning, 1928)
Myctophiformes	Myctophidae	*Diogenichthys laternatus* (Garman, 1899)
Myctophiformes	Myctophidae	*Gonichthys tenuiculus* (Garman, 1899)
Myctophiformes	Myctophidae	*Lampanyctus parvicauda* Parr, 1931
Myctophiformes	Myctophidae	*Loweina rara* (Lütken, 1892)
Myctophiformes	Myctophidae	*Myctophum aurolaternatum* Garman, 1899
Myctophiformes	Myctophidae	*Myctophum nitidulum* Garman, 1899
Myctophiformes	Myctophidae	*Notoscopelus resplendens* (Richardson, 1845)
Myctophiformes	Myctophidae	*Symbolophorus evermanni* (Gilbert, 1905)
Myctophiformes	Myctophidae	*Triphoturus oculeum* (Garman, 1899)
Lampriformes	Trachipteridae	*Trachipterus fukuzakii* Fitch, 1964
Stylephoriformes	Stylephoridae	*Stylephorus chordatus* Shaw, 1791
Gadiformes	Bregmacerotidae	*Bregmaceros* sp.
Gadiformes	Macrouridae	*Trachyrincus helolepis* Gilbert, 1892
Gadiformes	Merlucciidae	*Merluccius productus* (Ayres, 1855)
Beryciformes	Beryciformes	*Melamphaes acanthomus* Ebeling, 1962
Beryciformes	Beryciformes	*Melamphaes* sp. 1
Beryciformes	Beryciformes	*Melamphaes* sp. 2
Beryciformes	Beryciformes	*Scopelogadus bispinosus* (Gilbert, 1915)
Trachichthyiformes	Trachichthyidae	*Hoplostethus pacificus* Garman, 1899
Ophidiiformes	Bythitidae	*Cataetyx simus* Garman, 1899

Order	Familiy	Species
Ophidiiformes	Ophidiidae	*Carapus mourlani* (Petit, 1934)
Ophidiiformes	Ophidiidae	*Echiodon exsilium* Rosenblatt, 1961
Ophidiiformes	Ophidiidae	*Otophidium indefatigabile* Jordan & Bollman, 1890
Scombriformes	Bramidae	*Brama dussumieri* Cuvier, 1831
Scombriformes	Caristiidae	*Paracaristius nudarcus* Stevenson & Kenaley, 2011
Scombriformes	Chiasmodontidae	*Chiasmodon niger* Johnson, 1864
Scombriformes	Gempylidae	*Gempylus serpens* Cuvier, 1829
Scombriformes	Gempylidae	*Nealotus tripes* Johnson, 1865
Scombriformes	Nomeidae	*Cubiceps pauciradiatus* Günther, 1872
Scombriformes	Nomeidae	*Nomeus gronovii* (Gmelin, 1789)
Scombriformes	Nomeidae	*Psenes sio* Haedrich, 1970
Scombriformes	Trichiuridae	*Lepidopus fitchi* Rosenblatt & Wilson, 1987
Syngnathiformes	Syngnathidae	*Bryx veleronis* Herald, 1940
Kurtiformes	Apogonidae	*Apogon retrosella* (Gill, 1862)
Gobiiformes	Gobiidae	*Gunnellichthys* sp.
Gobiiformes	Gobiidae	*Paragunnellichthys* sp.
Carangiformes	Carangidae	*Decapterus muroadsi* (Temminck & Schlegel, 1844)
Pleuronectiformes	Bothidae	*Bothus constellatus* (Jordan, 1889)
Pleuronectiformes	Cynoglossidae	*Symphurus atramentatus* Jordan & Bollman, 1890
Pleuronectiformes	Cynoglossidae	*Symphurus chabanaudi* Mahadeva & Munroe, 1990
Pleuronectiformes	Cynoglossidae	*Symphurus oligomerus* Mahadeva & Munroe, 1990
Beloniformes	Scomberesocidae	*Cololabis adoceta* Böhlke, 1951
Lophiiformes	Gigantactinidae	*Gigantactis* sp.
Lophiiformes	Lophiiformes	*Borophryne apogon* Regan, 1925
Lophiiformes	Oneirodidae	*Dolopichthys* sp.
Perciformes	Serranidae	*Paralabrax humeralis* (Valenciennes, 1828)
Perciformes	Serranidae	*Serranus aequidens* Gilbert, 1890

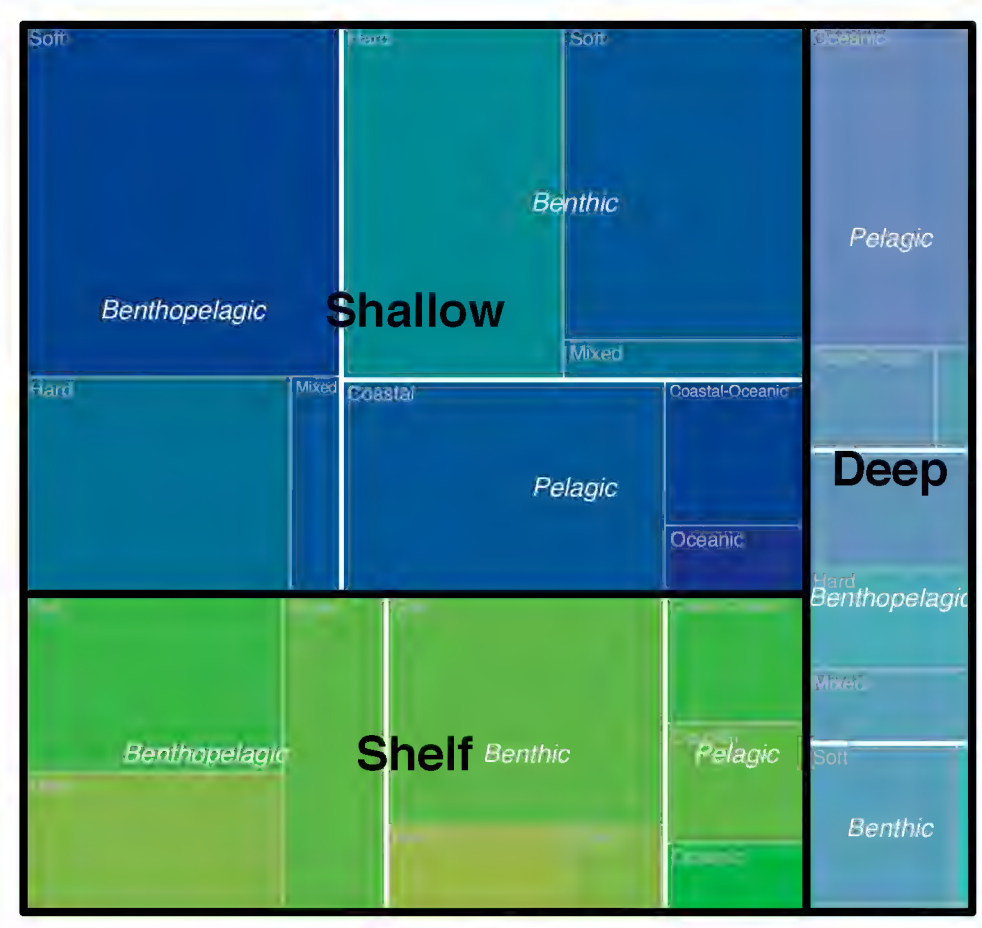

Figure 2. Coarse ecological tree map of Colombian Pacific marine fish fauna. Shallow species correspond to 51%, inhabitants of the continental shelf 28%, and deep waters dwellers 21%.

Conclusions

Introduced species, especially from the Caribbean, deserve special attention. This is the case of the silversides *Atherinella chagresi*, *Atherinomorus stipes*, and *Atherina harringtonensis*, which caught our attention as the last two were reported by Robertson and Allen (2024) as being introduced into the Colombian southern Pacific. We looked for evidence of this introduction, and based on our results, it is quite unlikely that these species have established healthy populations in this region. And if, at any time, they had, today there is no evidence of their existence, and we did not include them in the list. An additional introduced species is the cobia *Rachycentron canadum*, which has been reported to occur in the Pacific from Ecuador to Panama (Castellanos-Galindo et al. 2016, 2018; Vega et al. 2016). This species, originally absent from the ETP, was introduced, and reared in the Ecuadorian Pacific at offshore enclosures, with the foreseeable result that many specimens escaped to the wild, and now they are making their way north through Colombia, being found at least to Panama. Whether this species has already been established in the wild is unknown. The case of the tarpon, *Megalops atlanticus*, is quite different. Since 1937 Samuel Hildebrand reported about the presence of the species in the Pacific side of the Panama Canal, which have crossed autonomously from the Caribbean. Neira and Acero (2016) provided information on the presence and abundance of the tarpon in the northern sector (department of Chocó) of the Colombian Pacific. Today, information is available on its wide distribution, reaching as far south as the Mira River, on the border between Colombia and Ecuador. Therefore, the species is well established in the Eastern Pacific, being common at least in Colombian waters.

Overall, this list is a dynamic object that will change as more information becomes available and as some necessary taxonomic revisions occur. We recognize that some species may have been omitted when the samples collected in the Colombian Pacific were deposited in international collections (except for those reviewed in Castellanos-Galindo et al. 2006b, 2006c). However, the objective of this list was to include only records that we could validate. In the future, it will be necessary to revisit all species deposited in museums outside Colombia and include them as future additions to this contribution.

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Conflict of interest

The authors have declared that no competing interests exist.

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No ethical statement was reported.

Use of AI

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Author contributions

All authors participated in the design and conception of the study, JT, AAP, BB, and AP reviewed and verified vouchered specimens. All authors contributed to adding verified records, JT and AAP created and edited the annotated list, and JT drafted the original manuscript. All authors edited several versions of the manuscript and gave final approval for its submission and publication in its current form.

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Data availability

All of the data that support the findings of this study are available in the main text.

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